CRPL-F 239 PART A

FOR OFFICIAL USE

PART A

IONOSPHERIC DATA

ISSUED
JULY 1964

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

CRPL-F 239
PART A

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CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

Issued
23 July 1964

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CONTENTS

IONOSPHERIC DATA

The CRPL-F series bulletins are issued as part of the responsibility of the Central Radio Propagation Laboratory for the exchange and distribution of ionospheric and related geophysical data. Part A, "Ionospheric Data," and Part B, "Solar-Geophysical Data," of the CRPL-F series present a variety of data in convenient form for use in research in radio propagation and the ionosphere and in other geophysical problems.

The current form of the tables of ionospheric data provides the monthly medians and, in addition, the number of values entering into the median determination (count) for all ionospheric characteristics listed. Also, when available, the upper and lower quartile values indicated by UQ and LQ in the tables, are listed for foF2, h'F2, h'F, and M(3000)F2. Quartile values are not listed for the other characteristics because of space limitations. The tables are prepared by IBM machine methods.

Beginning with CRPL-F221, Part A, "Ionospheric Data," the hourly median values for the graphs of critical frequencies and M(3000)F2 were plotted by machine methods instead of manually, as in earlier issues. Graphs of critical frequencies and M(3000)F2 will continue to appear. Graphs of percentage of time of occurrence for fEs and virtual heights of the regular ionospheric layers are no longer included. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc are available from the CRPL and the IGY World Data Center for Airglow and Ionosphere.

For many years, the tables of ionospheric data appearing in the F series, Part A, listed values of medians recomputed at CRPL. While this practice enforced a certain uniformity, it was subject to some valid criticism for tampering with the original data. The tables and graphs now show the ionospheric data as they are provided by the originating laboratory. Responsibility for the accuracy and reliability of the data rests entirely with the originator.

Medians of data for the U.S. stations are computed in accordance with the recommendations of the World-Wide Soundings Committee. Data will appear in the F series, Part A, only when the complete daily-hourly tabulations have been received by the CRPL or the IGY World Data Center A for Airglow and Ionosphere.

Information on symbols, terminology, and conventions may be found in the "URSI Handbook of Ionogram Interpretation and Reduction, of the World-Wide Soundings Committee," edited by W. R. Piggott and K. Rawer (Elsevir, 1961), which supersedes previous documents. A list of symbols is available from CRPL on request.

The following table contains the latest available information on smoothed observed Zurich sunspot numbers, beginning with the minimum of April 1954. Final numbers are listed through June 1963, the succeeding values being based on provisional data.

Smoothed Observed Zurich Sunspot Number

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1954				3	4	4	5	7	8	8	10	12
1955	14	16	19	23	29	35	40	46	55	64	73	81
1956	89	98	109	119	127	137	146	150	151	156	160	164
1957	170	172	174	181	186	188	191	194	197	200	201	200
1958	199	201	201	197	191	187	185	185	184	182	181	180
1959	179	177	174	169	165	161	156	151	146	141	137	132
1960	129	125	122	120	117	114	109	102	98	93	88	84
1961	80	75	69	64	60	56	53	52	52	51	50	49
1962	45	42	40	39	39	38	37	35	33	31	30	30
1963	29	30	30	29	29	28	28	27	27	26	23	21
1964												

Units of Ionospheric Data Tables

foF2, foEs - - - Tenths of a megacycle
foF1, foE - - - Hundredths of a megacycle
h'F2, h'F, h'E - Kilometers
M(3000)F2 - - - Hundredths

NOTE: Occasionally, when the median falls between two of the observed values, the median is carried an extra decimal place beyond these units. Those cases are easily identifiable by the extra digit appearing to the right of the number, in a column usually left blank.

MED - Median
CNT - Count
UQ - Upper Quartile
LQ - Lower Quartile

WORLD-WIDE SOURCES OF IONOSPHERIC DATA

THE IONOSPHERIC DATA GIVEN IN TABLES 1 TO 100 AND FIGURES 1 TO 100 WERE ASSEMBLED BY THE CENTRAL RADIO PROPAGATION LABORATORY FOR ANALYSIS, CORRELATION AND DISTRIBUTION. THE FOLLOWING ARE THE SOURCES OF THE DATA IN THIS ISSUE:

REPUBLICA ARGENTINA, MINISTERIO DE MARINA.
TUCUMAN, ARGENTINA

COMMONWEALTH OF AUSTRALIA, IONOSPHERIC PREDICTION SERVICE OF THE COMMONWEALTH OBSERVATORY.
TOWNSVILLE, AUSTRALIA

BELGIAN ROYAL METEOROLOGICAL INSTITUTE.
DOURBES, BELGIUM

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TANANARIVE, MALAGASY REPUBLIC

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CAPETOWN, UNION OF SOUTH AFRICA
JOHANNESBURG, UNION OF SOUTH AFRICA

UNITED STATES ARMY SIGNAL CORPS., UNITED STATES OF AMERICA.
ADAK, ALASKA
FT. MONMOUTH, NEW JERSEY
GRAND BAHAMA I.
THULE, GREENLAND

NATIONAL BUREAU OF STANDARDS, UNITED STATES OF AMERICA.
(CENTRAL RADIO PROPAGATION LABORATORY).
ANCHORAGE, ALASKA
BYRD STATION, ANTARCTICA

TABLES OF IONOSPHERIC DATA

December 1962 - April 1962

TABLE 1

GRAND BAHAMA I. (26.6N, 78.2W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	38	42	45	44	42	38	34	45	58	61	67	66	66	70	66	63	62	56	41	33	33	35	38	36
	CNT	27	26	24	26	23	27	26	30	31	31	31	31	31	30	30	30	30	30	31	29	31	31	30	28
	UQ	43	44	48	48	46	41	40	48	62	67	73	69	71	77	73	69	65	58	46	38	39	39	41	40
	LQ	35	38	40	41	40	32	31	42	54	55	57	60	62	65	59	60	58	54	37	30	30	31	32	33
h'F2	MED									228	240	260	258	270	262	258	250	238							
	CNT									9	25	29	30	31	29	28	28	26							
	UQ									230	249	268	268	290	280	272	259	245							
	LQ									220	234	247	240	260	260	250	240	225							
h'F	MED	E 249	E 242	E 230	E 230	E 236	E 239	E 242	226	230	220	212	205	190	194	E 210	212	E 220	216	E 215	E 232	E 240	E 242	E 239	E 242
	CNT	30	30	30	30	30	30	30	30	31	31	31	31	30	27	28	28	28	30	31	29	31	31	31	30
	UQ	270	259	250	240	250	250	260	240	235	230	227	213	207	210	220	220	230	220	230	250	260	251	260	257
	LQ	239	240	223	220	220	229	230	220	220	210	201	200	189	187	200	200	211	210	205	220	228	230	230	230
M(3000)F2	MED	310	320	335	330	330	320	320	340	355	350	350	345	340	338	342	340	350	360	350	330	320	320	320	310
	CNT	26	25	23	25	22	26	26	30	31	31	31	31	31	30	30	30	30	30	31	29	29	31	30	28
	UQ	320	325	340	348	340	330	335	350	370	360	360	370	350	350	350	350	365	365	360	342	338	330	330	328
	LQ	305	310	320	322	315	310	310	330	345	350	345	335	320	320	330	340	345	345	330	310	310	310	310	298
foF1	MED													420	415										
	CNT											1	4	7	6		1								
foE	MED								U 170	210	250	280	300	305	300	D 290	270	230	U 180						
	CNT								10	24	28	29	27	28	27	27	26	24	5						
h'E	MED									E 122	E 113	E 110	E 110	E 110	E 110	E 112	E 115	E 120							
	CNT								4	24	27	29	29	29	27	28	26	25							
foEs	MED	27	30	27	31	31	30	30	31	25	30	33	35	35	36	34	33	28	27	31	31	30	29	27	31
	CNT	21	24	21	21	23	22	23	29	31	31	31	31	31	30	30	30	30	28	30	29	28	24	27	23

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. DECEMBER, 1963

When a "less than" sign occurs on the graph of foE or foEs and a qualifying E is not found in the table, the corresponding descriptive E (which at times means "less than") was not printed in the table.

TABLE 2

THULE, GREENLAND (76.4N, 68.8W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 28	U 30	U 22	U 22	U 34	U 22	U 30	U 32	U 36	U 37	U 39	U 42	U 41	U 42	U 42	U 42	U 42	U 43	U 38	U 37	U 28	U 26	U 31	U 30
	CNT	14	10	9	10	12	7	15	13	21	26	24	26	21	24	20	20	17	21	19	11	12	13	11	15
	UQ	36	37	32	25	38	29	36	40	38	45	42	45	48	46	45	45	46	48	45	42	38	40	33	35
	LQ	19	22	21	20	22	21	26	29	32	34	35	37	38	40	39	39	38	39	34	24	24	24	19	27
h'F2	MED													260											
	CNT											2	2	4	5	4	2								
	UQ													295											
	LQ													254											
h'F	MED	240	240	240	239	230	U	240	240	240	240	239	240	235	240	240	240	239	240	232	235	233	233	235	241
	CNT	25	25	27	23	25	23	25	23	27	28	29	28	27	29	28	29	26	27	27	29	27	28	27	29
	UQ	250	254	267	250	269	240	250	265	259	258	255	254	250	248	248	250	245	249	250	249	245	243	250	260
	LQ	228	220	230	222	220	211	220	230	229	222	229	230	230	230	236	230	228	229	225	230	220	220	220	220
M(3000)F2	MED	U 290	U 300	U	U 295		U	U 315	U 315	U 320	U 330	U 320	U 318	U 320	U 325	U 310	U 315	U 310	U 310	U 310	U 310	U 310	U 300	U 320	U 298
	CNT	7	7	4	6	4	4	10	9	15	24	17	22	17	17	18	15	15	12	13	7	8	7	7	10
	UQ	310	310		305			335	332	350	338	330	330	330	338	325	330	320	332	315	320	318	315	320	305
	LQ	290	290		285			300	300	315	310	312	300	308	308	305	310	300	305	300	305	305	290	295	290
foF1	MED																								
	CNT											1	1		1										
foE	MED								U 125	140	U 165	U 170	U 175	180	U 168	U 162									
	CNT						3	4	5	8	7	14	9	9	14	10	1	1	1						
h'E	MED	109	106	109	104	109	109	104	102	103	105	100	109	100	103	104	110	109	106					104	105
	CNT	6	6	7	9	11	11	21	22	25	23	23	20	21	21	17	14	9	6	4	4	1	8	5	3
foEs	MED	14	23	13	18	18	15	14	14	18	19	19	18	20	18	21	22	18	20	22	14	18	13	14	12
	CNT	25	21	22	20	24	23	28	29	30	29	29	28	28	28	28	29	28	28	27	28	25	27	23	24

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. OCTOBER, 1963

TABLE 3

REYKJAVIK, ICELAND (64.1N, 21.8W) TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	21		U 17			U 20	U 19	30	36	42	46	50	52	50	50	50	48	U 43	U 42	U 31	U 28	U 22	U 24	D 22
	CNT	5	3	7	4	4	9	11	17	23	24	25	27	28	29	30	26	27	20	8	7	5	6	6	8
	UQ	23		23			23	20	31	38	45	49	54	57	57	56	55	50	49	48	39	32	25	30	25
	LQ	16		14			16	17	22	35	40	44	45	48	45	46	43	42	38	35	27	25	21	18	18
h'F2	MED								E 300	285	270	280	265												
	CNT								1	2	7	12	23	14	8	4									
	UQ										300	310	325	290	310	325									
	LQ										280	270	240	260	245										
h'F	MED	E 345	E 370	E 390	330	335	320	280	250	230	232	230	220	220	215	230	232	240	250	250	260	270	300	E 345	E 350
	CNT	6	5	10	6	8	11	12	17	21	22	22	23	24	23	26	24	27	27	21	17	13	10	10	9
	UQ	365	420	420	360	375	350	295	275	278	245	240	230	230	240	260	250	265	270	285	275	315	310	370	385
	LQ	330	310	320	310	305	300	275	240	225	230	215	210	210	210	210	228	230	240	240	245	260	260	330	305
M(3000)F2	MED			U 280			U 300	U 310	320	335	330	335	335	330	330	330	330	325	U 320	U 315	U 320				
	CNT	3	2	5	4	4	7	9	17	21	23	25	25	26	28	27	23	23	19	5	5	2	4	3	3
	UQ			300			310	310	340	340	335	340	340	340	340	340	340	330	330	322	320				
	LQ			270			280	295	312	325	320	318	312	315	312	310	320	320	300	290	305				
foF1	MED												1												
	CNT																								
foE	MED									185	D 210	D 200	232	240	U 230	230	205	D 180							
	CNT							1	1	7	5	9	12	11	11	14	9	8	3	1					
h'E	MED									E 129	113	116	E 119	111	118	E 118	119	126							
	CNT							1	1	7	5	10	13	9	12	14	9	10	4						
foEs	MED	36	44	44	42	37	34	30	16	18	21	23	24	24	24	23	21	19	19	38	35	45	36	39	42
	CNT	21	26	23	20	18	17	15	13	13	13	16	20	19	14	19	17	22	20	20	19	20	24	21	25

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS. OCTOBER, 1963

TABLE 4

CONCEPCION, CHILE (36.8S, 73.0W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	56	D 55	54	48	42	44	55	60	67	71	78	87	89	98	102	105	90	88	80	72	62	57	57	55
	CNT	27	29	29	28	30	31	29	31	31	31	30	31	31	31	31	31	31	31	31	31	31	30	30	29
	UQ	61	61	60	56	49	51	64	64	72	80	91	97	103	110	120	119	110	98	93	80	68	64	63	63
	LQ	48	42	42	42	35	31	48	52	57	66	71	76	82	79	86	73	71	74	68	58	43	42	42	44
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	280	290	295	328	302	305	350	340	335	330	320	320	315	310	320	325	325	330	325	320	292	275	280	280
	CNT	26	28	29	28	30	31	29	31	30	31	30	30	30	31	31	31	31	27	31	31	30	29	30	29
	UQ	290	292	302	338	315	320	368	350	340	335	330	325	330	320	330	335	340	340	345	335	305	290	290	285
	LQ	280	280	285	302	290	295	338	325	320	310	305	310	310	300	315	315	320	315	320	310	285	268	270	272
foF1	MED											U 430													
	CNT								1	1	2	5	4	3	2										
foE	MED							200	U 255	290	305	D 320	D 330	338	D 320	D 305	D 290	265	218						
	CNT						1	22	30	30	27	28	24	26	28	28	26	25	22						
h'E	MED							129	119	118	115	116	115	116	118	119	119	120	125						
	CNT			1			1	23	30	30	28	28	27	26	28	29	27	23	20						
foEs	MED	25	21	22	21	21	18	22	30	32	36	38	39	39	36	34	31	28	25	27	30	26	26	24	23
	CNT	15	19	18	22	18	22	28	31	31	29	29	30	29	31	31	31	31	31	28	23	20	18	20	17

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. OCTOBER, 1963 —

TABLE 5

ANCHORAGE, ALASKA (61.2N, 149.9W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 26	U 21	U 25	U 26	U 25	25	32	36	38	41	44	44	45	46	44	44	43	42	42	37	34	U 31	U 26	U 24
	CNT	8	9	6	8	7	14	19	16	21	19	18	20	19	22	21	20	20	19	21	20	19	15	14	10
	UQ	28	28	27	30	27	26	35	38	44	46	49	50	48	48	48	46	46	44	43	40	37	34	30	26
	LQ	24	18	22	22	22	24	26	34	36	38	41	42	43	41	40	40	41	40	38	33	26	23	22	20
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	U 310	U 302	U 290	U 300	U 288	310	320	312	300	300	305	308	285	302	310	320	332	340	330	320	312	U 315	U 315	
	CNT	6	6	5	7	6	13	19	16	20	17	15	18	18	20	20	19	20	19	21	19	16	14	11	4
	UQ	320	305	302	300	295	330	340	325	330	328	325	325	320	318	320	330	342	345	342	330	320	320	315	
	LQ	305	290	285	280	280	272	305	275	262	268	275	290	275	265	272	305	315	330	318	315	308	305	310	
foF1	MED							U 320		355	370	380	390	390	390	390	370								
	CNT						1	3		14	13	15	17	19	21	17	10	3							
foE	MED								208	235	260	U 270	280	285	U 270	U 265	U 250	235							
	CNT							3	6	8	8	7	8	7	8	6	9	6	4						
h'E	MED						E 123	111		110	107	108	109	109	111	109	111	115	121						
	CNT					1		6	10	12	15	14	14	14	15	14	13	9	6	2					
foEs	MED	25	25	36	27	27		20	22	23	26	26	28	28	27	26	25	23	21	19		28	28	25	42
	CNT	16	19	13	13	7	4	11	11	13	15	14	15	14	15	14	11	10	7	5	3	8	12	10	10

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. SEPTEMBER, 1963

TABLE 6

ADAK, ALASKA (51.9N, 176.6W) TIME 180.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	27	26	27	27	26	28	35	42	45	49	51	50	51	52	53	49	50	49	48	47	46	40	35	29
	CNT	20	21	23	22	25	26	29	30	29	29	30	30	29	29	30	29	30	30	30	29	27	25	28	24
	UQ	34	34	33	29	30	32	41	49	52	55	56	55	56	56	56	56	54	52	52	52	51	48	40	35
	LQ	24	25	24	23	23	23	32	38	41	43	44	47	48	46	47	44	45	44	41	38	36	34	28	24
h'F2	MED							506	300	310	324	310	324	320	311	305	272	258							
	CNT							6	16	22	26	27	27	24	24	25	13	7	2						
	UQ								423	440	410	430	427	348	344	322	456	264							
	LQ							267	288	267	267	277	300	292	282	271	270	250							
h'F	MED	E 277	E 283	E 276	E 285	E 300	E 276	E 245	224	215	215	204	200	200	200	200	210	E 229	235	240	E 240	E 249	245	F 260	E 264
	CNT	25	27	28	29	28	28	30	30	29	29	30	29	29	28	29	29	30	30	29	29	28	28	29	27
	UQ	298	310	298	312	315	302	265	245	235	224	210	208	212	208	215	225	237	245	254	262	265	266	276	289
	LQ	255	260	256	262	260	254	235	210	204	202	195	190	190	190	188	190	221	232	228	226	236	232	230	240
M(3000)F2	MED	300	300	300	295	290	315	320	325	335	330	328	320	330	330	330	335	332	340	330	325	320	320	320	308
	CNT	20	20	19	20	22	25	29	30	29	29	30	30	29	29	30	29	30	30	30	29	27	25	27	22
	UQ	312	308	310	302	310	320	338	340	350	348	340	335	338	345	345	345	345	345	340	335	330	330	330	325
	LQ	295	288	290	282	285	300	300	305	295	295	280	285	302	308	320	310	325	320	320	315	300	300	300	295
foF1	MED							4	345	380	400	400	420	415	410	400	390								
	CNT								10	18	23	26	24	22	20	17	6								
foE	MED							175	215	255	270	290	300	300	300	280	260	230	U 200						
	CNT	1					2	9	17	13	24	23	21	20	20	22	23	25	17	4	2	1	3	1	1
h'E	MED							113	109	107	105	E 105	105	106	108	105	108	110	E 116	123					
	CNT	1					14	21	27	23	29	28	27	27	26	29	29	29	22	19	15	2	3	1	1
foEs	MED	14	14	13	15	16	19	21	23	27	29	30	31	30	31	28	27	D 26	23	21	17	17	14	13	11
	CNT	17	23	18	29	30	29	29	30	29	29	30	29	29	28	29	29	30	29	29	28	29	27	25	21

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. SEPTEMBER, 1963

TABLE 7

NARSSARSSUAQ, GREENLAND (61.2N, 45.4W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 32	U 32	U 30	30	28	E 35	38	42	45	45	47	47	48	48	48	47	47	46	45	44	U 40	U 39	U 33	U 30
	CNT	14	11	5	8	7	16	19	20	24	26	27	30	30	31	30	30	30	29	30	26	22	19	11	10
	UQ	35	35	35	32	31	37	40	44	47	47	49	49	50	50	50	49	49	48	47	47	45	41	39	34
	LQ	32	30	24	25	27	33	37	40	43	43	44	45	46	45	46	45	44	44	43	40	38	34	30	27
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	45	36	38	37	42	38	27	27	28	30	30	32	32	26	22	28	30	30	32	30	39	54	50	37
	CNT	26	29	28	25	24	24	14	15	18	17	19	17	20	25	24	27	29	30	30	30	28	29	23	29

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS. AUGUST, 1963

TABLE 8

FT. MONMOUTH, NEW JERSEY (40.4N, 74.1W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	31	29	24	22	U 21	25	38	43	47	50	52	50	50	50	51	51	52	54	58	61	D 58	46	39	37
	CNT	27	27	24	26	24	28	31	30	29	30	28	29	29	29	31	31	30	31	30	30	30	30	30	26
	UQ	35	31	28	24	22	27	39	46	52	53	56	54	53	54	54	54	55	58	60	67	60	51	42	38
	LQ	25	22	23	20	19	24	36	41	45	48	48	48	49	49	49	50	51	51	53	56	50	43	36	31
h'F2	MED							255	315	309	326	340	375	382	385	354	343	335	300	270					
	CNT							5	22	26	30	28	28	28	28	30	31	31	31	25					
	UQ							365	390	350	355	368	408	450	425	398	372	350	310	290					
	LQ							240	280	272	300	300	330	345	340	338	330	315	285	260					
h'F	MED	E 280	E 288	E 300	E 300	E 300	E 250	E 230	216	200	192	180	190	200	200	205	210	212	219	235	235	230	E 240	E 245	E 270
	CNT	29	29	25	25	21	28	31	30	28	30	27	30	28	30	30	31	31	29	25	31	31	31	31	29
	UQ	300	310	320	315	321	280	235	230	210	200	195	200	210	204	219	220	220	232	247	243	240	260	270	300
	LQ	268	269	275	274	276	240	219	210	190	180	178	180	186	186	200	200	207	210	229	229	220	228	238	255
M(3000)F2	MED	310	305	300	315	312	330	340	338	328	322	320	308	295	300	305	305	310	320	320	320	320	320	315	305
	CNT	25	26	19	21	18	24	31	28	28	30	28	28	27	28	29	30	29	30	29	28	27	29	26	24
	UQ	318	315	310	320	320	340	355	340	345	335	330	322	320	310	315	315	320	325	330	330	330	332	320	318
	LQ	300	295	300	302	310	315	330	310	308	305	302	290	280	288	288	300	300	310	310	320	320	315	305	300
foF1	MED							2	370	400	420	430	430	440	430	430	420	400	370						
	CNT								18	25	30	27	27	27	30	29	31	30	14						
foE	MED								U 240	U 280	U 300	320	330	U 335	338	330	U 310	D 280	250	U 195					
	CNT						1	4	9	8	8	12	12	15	20	21	18	23	18	7					
h'E	MED							E 118	108	104	103	103	102	101	102	102	103	106	110	E 118					
	CNT							20	29	29	29	29	29	27	30	30	31	30	30	20					
foEs	MED	31	32	42	35	30	33	22	28	31	32	32	35	37	34	33	33	31	30	29	28	33	33	32	32
	CNT	14	12	8	11	13	10	30	30	30	30	30	31	31	31	31	31	31	31	30	25	21	20	14	15

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. AUGUST, 1963

TABLE 9

TROMSO, NORWAY (69.7N, 19.0E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED		47	45	44	45	46	47	48	51	52	50	52	51	50	49	48	47	49	48	48	44	43	44	47
	CNT	4	9	11	16	17	19	19	21	19	21	22	21	26	26	25	27	27	25	26	21	15	11	10	6
	UQ		50	47	47	46	49	52	53	54	55	54	54	54	53	52	50	51	51	51	50	51	51	51	51
	LQ		43	43	42	42	44	44	42	47	48	47	48	48	47	44	45	45	46	45	46	46	40	40	40
h'F2	MED		265		380	385	395	360	375	375	355	395	375	355	385	400	395	390	365	365					
	CNT	2	6	3	9	9	18	18	18	19	19	22	21	25	26	22	15	10	11	6	3			4	2
	UQ		325		410	410	415	410	475	430	395	445	410	435	430	485	450	410	390	375					
	LQ		250		340	370	350	345	345	350	345	350	345	345	355	355	360	350	325	34[illegible]					
h'F	MED			260	245	240	230	220	210	215	210	205	210	210	205	200	195	205	220	240	245	245	240		
	CNT	3	3	6	12	17	18	19	18	13	14	9	12	14	15	13	16	16	15	14	16	6	6	4	2
	UQ			270	265	250	245	225	225	235	230	220	210	210	210	210	210	210	240	245	250	250	265		
	LQ			245	240	220	230	210	205	205	210	200	200	200	200	200	200	200	210	230	240	245	240		
M(3000)F2	MED		295	290	275	290	270	290	290	290	290	290	290	290	290	290	290	300	305	305	310	305	305	300	
	CNT	4	8	10	14	16	19	[illegible]	18	19	21	22	21	26	26	23	22	17	18	15	8	10	9	7	3
	UQ		315	310	295	290	295	300	290	300	300	310	315	305	300	305	300	305	310	310	320	310	310	310	
	LQ		280	280	270	285	270	270	260	270	280	270	280	270	270	270	270	280	290	290	300	300	290	290	
foF1	MED				410	330	360	380	395	410	410	420	425	420	420	410	405	395	385	360					
	CNT			[illegible]	1	11	17	17	18	18	19	22	21	25	24	22	15	10	11	6				1	
foE	MED					220	235	255	270	280	290	295	300	300	300	290	285	280	255	235	235				
	CNT		2	4	4	9	13	11	13	9	10	6	6	5	7	14	22	18	11	8	9	2		3	
h'E	MED					105	105	100	100	100	100	100	100	100	100	105	105	105	105	105	110	110			
	CNT		[illegible]	1	2	6	12	14	16	16	16	15	14	16	18	17	23	22	20	2[illegible]	16	17	[illegible]	4	1
foEs	MED	32	38	32	32	32	27	28	32	32	32	32	32	32	31		32	32	32	32	32	4[illegible]	32	32	40
	CNT	20	23	21	23	22	23	20	21	17	17	15	14	17	19	19	25	20	30	28	28	24	23	25	21

SWEEP 0.7 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC. JUNE, 1963

TABLE 10

KIRUNA, SWEDEN (67.8N, 20.4E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	40	42	42	43	44	46	46	49	[illegible]	50	[illegible]	[illegible]	49	48	48	47	48	48	48	45	44	44	42
	CNT	11	15	[illegible]	[illegible]	[illegible]	[illegible]	25	27	27	27	26	27	28	28	28	24	[illegible]	26	26	23	23	[illegible]	15	11
	UQ	47	47	45	44	46	48	49	51	52	54	53	53	53	52	52	49	49	49	49	50	48	48	48	47
	LQ	34	36	36	36	38	38	39	[illegible]	40	44	47	47	45	46	46	46	44	46	44	44	38	42	40	38
h'F2	MED		300	[illegible]	[illegible]	365	[illegible]	375	[illegible]	355	[illegible]	360	[illegible]	350	355	350	350	355	330	310	240	330	280		
	CNT		2	[illegible]	19	[illegible]	26	23	[illegible]	24	25	24	27	26	26	24	27	22	24	21	15	5	5		
	UQ			[illegible]	365	[illegible]	415	420	475	[illegible]	[illegible]	[illegible]	[illegible]	405	375	390	390	390	365	335	[illegible]	360	300		
	LQ			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	335	[illegible]	[illegible]	[illegible]	340	335	[illegible]	335	330	330	[illegible]	295	[illegible]	280	260		
h'F	MED	[illegible]	275	[illegible]	240	[illegible]	[illegible]	210	[illegible]	200	210	205	205	200	200	205	205	[illegible]	215	[illegible]	230	240	245	255	280
	CNT	[illegible]	21	21	22	24	[illegible]	25	26	25	24	23	26	27	27	27	26	27	24	24	24	23	[illegible]	21	19
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	235	[illegible]	215	[illegible]	[illegible]	215	21[illegible]	[illegible]	[illegible]	205	205	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	250	[illegible]	290	305
	LQ	255	[illegible]	[illegible]	225	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	195	[illegible]	195	195	195	[illegible]	[illegible]	210	[illegible]	225	[illegible]	235	245	245
M(3000)F2	MED	[illegible]	300	[illegible]	[illegible]	290	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	300	[illegible]	295	300	310	300	300	305	310	320	310	315	305	310
	CNT	[illegible]	13	[illegible]	[illegible]	[illegible]	25	23	[illegible]	24	[illegible]	26	27	28	26	25	28	29	26	25	21	20	[illegible]	14	9
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	310	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	335	[illegible]	330	310	320
	LQ	[illegible]	300	[illegible]	[illegible]	280	280	[illegible]	[illegible]	255	265	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	280	300	300	300	300	300	300	300
foF1	MED		240	280	300	[illegible]	[illegible]	[illegible]	[illegible]	390	[illegible]	[illegible]	[illegible]	415	420	415	395	390	380	360	340	320	285		
	CNT		2	8	[illegible]	24	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	27	28	27	[illegible]	[illegible]	24	25	22	15	5	4		
foE	MED	170	140	160	185	[illegible]	[illegible]	260	[illegible]	280	[illegible]	295	300	300	300	[illegible]	[illegible]	270	260	240	205	195	[illegible]	150	
	CNT	2	2	14	14	[illegible]	[illegible]	21	[illegible]	23	[illegible]	24	22	[illegible]	19	[illegible]	23	[illegible]	24	21	20	16	11	4	
h'E	MED			[illegible]	105	[illegible]	[illegible]	[illegible]	[illegible]	105	[illegible]	100	[illegible]	100	[illegible]	[illegible]	[illegible]	105	105	105	[illegible]	110			
	CNT			6	7	7	17	17	17	19	22	23	24	21	18	[illegible]	22	24	22	17	14	6			
foEs	MED	36	30	34	34	34													34	34	35	[illegible]	[illegible]	34	[illegible]
	CNT	24	24	28	25	23	28	25	24	23	24	23	24	22	22	23	26	27	27	28	26	29	[illegible]	26	23

SWEEP 0.8 MC TO 15.0 MC IN 30 SECONDS. JUNE, 1963

TABLE 11

RESOLUTE BAY, CANADA (74.7N, 94.[illegible]W) TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	43	43	44	42	44	42	44	44	46	44	48	48	50	50	[illegible]	[illegible]	50	49	[illegible]	48	47	46	45	44
	CNT	31	31	31	[illegible]	30	30	30	28	29	30	30	28	28	[illegible]	27	27	30	29	[illegible]	30	31	29	30	31
	UQ	47	47	47	47	48	46	50	48	49	50	50	51	52	52	52	52	52	52	53	50	50	50	48	47
	LQ	41	40	39	37	38	39	[illegible]	42	42	[illegible]	44	44	46	44	47	45	48	46	46	45	44	42	41	40
h'F2	MED	280	300	[illegible]	295	[illegible]	[illegible]	360	380	385	425	410	[illegible]	400	400	400	[illegible]	[illegible]	380	360	[illegible]	300	[illegible]	[illegible]	[illegible]
	CNT	7	6	9	15	24	[illegible]	[illegible]	27	28	26	26	27	26	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	28	17	[illegible]	[illegible]
	UQ																								
	LQ																								
h'F	MED	250	[illegible]	[illegible]	240	[illegible]	215	215	220	[illegible]	[illegible]	205	[illegible]	[illegible]	[illegible]	[illegible]	200	[illegible]	[illegible]	[illegible]	[illegible]	220	235	240	240
	CNT	[illegible]	31	[illegible]	[illegible]	31	31	31	31	30	31	29	28	28	27	27	27	30	30	[illegible]	31	31	30	30	31
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	300	[illegible]	300	[illegible]	[illegible]	300	280	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	290	300	290	300	300	[illegible]	[illegible]
	CNT	24	[illegible]	[illegible]	22	[illegible]	21	21	[illegible]	[illegible]	14	17	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	20	[illegible]	21	22	24	24	25
	UQ																								
	LQ																								
foF1	MED					[illegible]	34	[illegible]	37	[illegible]	39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	380	37	[illegible]	[illegible]			
	CNT			[illegible]	[illegible]		2[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2[illegible]	[illegible]		[illegible]	
foE	MED	160	170	180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	240	[illegible]	[illegible]	[illegible]	180	[illegible]
	CNT	25	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 16 SECONDS. MAY, 1963

TABLE 12

KIRUNA, SWEDEN (67.8N, 20.4E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44	43	46	47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48	48	[illegible]	[illegible]	48	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	24	25	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	42	[illegible]	44	46	46	49	[illegible]	[illegible]	[illegible]	[illegible]	54	[illegible]	54	54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48	[illegible]	48	49
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	38	[illegible]	38	42	[illegible]	47	48	48	[illegible]	47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44	[illegible]	[illegible]	[illegible]	44
h'F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22	22	[illegible]	24	[illegible]	24	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	320	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
foF1	MED				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
	CNT					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]			
foE	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
h'E	MED		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
	CNT		2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
foEs	MED	[illegible]	[illegible]	[illegible]																[illegible]	[illegible]	[illegible]	[illegible]	34	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP [illegible] MC TO [illegible] MC IN [illegible]. MAY, 1963

TABLE 13

[illegible]ANKYLA, FINLAND (67.4N, 26.6E) TIME [illegible]

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	[illegible]	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	46
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	52	48	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	260
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	292	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	300	[illegible]
	LQ	[illegible]	[illegible]	283	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
foF1	MED					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
foE	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	125
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'E	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	125
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
foEs	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP [illegible] MC TO [illegible] MC IN [illegible] MINUTES, AUTOMATIC. MAY, 1963

TABLE 14

LULEA, SWEDEN (65.6N, [illegible]E) TIME [illegible]

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]
	UQ																								
	LQ																								
h'F2	MED				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	280	260	[illegible]	255					
	CNT				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
foF1	MED				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]					
foE	MED				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	260	[illegible]	[illegible]	[illegible]			
	CNT				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
h'E	MED				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100	[illegible]	[illegible]	[illegible]			
	CNT				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	13	[illegible]	[illegible]	[illegible]			
foEs	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 0.65 MC TO 25.0 MC IN 5 MINUTES, [illegible]. MAY, 1963

TABLE 15

[illegible], SWEDEN ([illegible]) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	27	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	41	[illegible]	[illegible]	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	CNT				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	UQ				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	LQ				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
h'F	MED	[illegible]	[illegible]	[illegible]	255	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	260
	CNT	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	300	295	305	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	240	245	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
M(3000)F2	MED	[illegible]	290	290	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	300	300
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	280	280	280	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
foF1	MED				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
foE	MED	[illegible]		110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	CNT	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
h'E	MED	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	CNT	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
foEs	MED	[illegible]	[illegible]	[illegible]	27	32	37	35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	26	[illegible]	[illegible]	[illegible]	24	[illegible]	27	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 0.33 MC TO 20.0 MC IN 3 MINUTES. MAY, 1963

TABLE 16

UPPSALA, SWEDEN ([illegible]N, 17.6E) TIME [illegible]

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44
	CNT	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	CNT				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	UQ				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	LQ				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
h'F	MED	[illegible]	255	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	245	[illegible]	[illegible]	245	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	265
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	27	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	[illegible]	[illegible]
foF1	MED				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	CNT					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
foE	MED			[illegible]	[illegible]	[illegible]	210	[illegible]	[illegible]	[illegible]	[illegible]	310	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	CNT			2	[illegible]	[illegible]	24	27	27	[illegible]	[illegible]	24	20	21	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
h'E	MED				110	110	105	105	105	100	100	100	100	100	100	100	105	105	105	[illegible]	[illegible]	[illegible]	[illegible]		
	CNT				[illegible]	[illegible]	24	27	27	27	29	29	29	28	28	28	28	28	29	[illegible]	[illegible]	[illegible]	[illegible]		
foEs	MED	23	24	23	24	30	31	35	40	39	43	40	41	40	40	38	37	36	37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	28	28	30	30	30	29	29	29	30	30	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 0.33 MC TO 20.0 MC IN 3 MINUTES. MAY, 1963

TABLE 1

CHURCHILL, CANADA (58.8N, 94.2W) TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	38	37	35	35	38	42	43	43	46	48	49	51	[illegible]	51	[illegible]	[illegible]	54	[illegible]	48	44	[illegible]	[illegible]	[illegible]
	CNT	20	25	26	24	26	25	26	24	21	25	27	27	27	[illegible]	31	30	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	43	42	40	38	39	42	43	44	47	49	51	52	53	54	53	57	59	57	[illegible]	50	[illegible]	48	[illegible]	43
	LQ	36	32	32	[illegible]	[illegible]	[illegible]	38	[illegible]	42	[illegible]	45	46	48	48	49	[illegible]	50	50	48	[illegible]	43	37	[illegible]	30
h'F2	MED						330	390	465	465	435	410	430	395	395	375	[illegible]	[illegible]	[illegible]	[illegible]	290				
	CNT						5	13	20	16	[illegible]	25	[illegible]	24	28	[illegible]	8	8	28	[illegible]	[illegible]				
	UQ																								
	LQ																								
h'F	MED	260	[illegible]	270	295	300	295	310	[illegible]	[illegible]	200	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	15	18	17	19	22	22	12	9	10	4	21	25	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	300	330	[illegible]	[illegible]	310	[illegible]	[illegible]	280	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	7	8	5	[illegible]	9	13	12	14	12	17	[illegible]	[illegible]	22	[illegible]	[illegible]	8	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
foF	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT						[illegible]	17	[illegible]	14	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	8	28	[illegible]					
foE	MED					18				30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	CNT				4	5		4	[illegible]	8	12	[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 16 SECONDS.

MAY, 1963

TABLE [illegible]8

DOURBES, BELGIUM (50.1N, 4.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	44	42	[illegible]	36	38	44	48	52	56	59	58	58	56	58	56	57	[illegible]	60	62	66	66	62	[illegible]	49
	CNT	28	27	28	29	27	27	26	24	25	26	27	27	27	28	[illegible]	[illegible]	[illegible]	[illegible]	26	26	[illegible]	[illegible]	[illegible]	27
	UQ	47	44	42	[illegible]	41	47	53	55	60	63	60	60	60	[illegible]	58	[illegible]	60	64	66	72	[illegible]	68	58	[illegible]
	LQ	42	37	[illegible]	[illegible]	34	38	[illegible]	48	51	54	[illegible]	[illegible]	54	[illegible]	53	[illegible]	[illegible]	58	[illegible]	[illegible]	60	[illegible]	[illegible]	45
h'F2	MED					[illegible]	[illegible]	[illegible]	335	328	315	325	344	[illegible]	350	345	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT					2	1	21	[illegible]	[illegible]	25	[illegible]	2	[illegible]	26	24	[illegible]	[illegible]	[illegible]	[illegible]					
	UQ						[illegible]	384	[illegible]	[illegible]	330	[illegible]	[illegible]	385	370	358	[illegible]	348	[illegible]	295					
	LQ						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	325	330	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
h'F	MED	288	[illegible]	245	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	30	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	295	300	300	298	[illegible]	[illegible]	[illegible]	[illegible]	240	245	255	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	280	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	265	280	[illegible]	275	[illegible]	[illegible]	[illegible]	228	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
M(3000)F2	MED	298	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	28	27	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	308	300	[illegible]	304	317	[illegible]	328	328	[illegible]	[illegible]	[illegible]	328	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	288	286	287	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	317	314	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	308	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
foF1	MED					[illegible]	[illegible]	[illegible]	400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	440	[illegible]	[illegible]	380						
	CNT					[illegible]	[illegible]	17	[illegible]	26			28	[illegible]	24	[illegible]	31	[illegible]	[illegible]						
foE	MED					[illegible]	[illegible]	[illegible]	255	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	CNT					4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	24	28	4				
h'E	MED					138	[illegible]	116	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	121	[illegible]				
	CNT					[illegible]	31	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]	31	[illegible]	[illegible]	30	[illegible]				
foEs	MED			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34	[illegible]	[illegible]	37	36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	31	31	[illegible]	31	31	[illegible]	29	28	[illegible]	[illegible]	[illegible]	29	[illegible]	27	29	29	28	[illegible]		[illegible]	[illegible]	[illegible]	31	31

SWEEP 1.0 MC TO 20.0 MC IN 3 MINUTES.

MAY, 1963

TABLE 1[illegible]

WINNIPEG, CANADA (49.9N, 97.4W) TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	24	[illegible]	24	[illegible]	37	[illegible]	[illegible]	[illegible]	48	50	50	[illegible]	50	[illegible]	[illegible]	50	52	[illegible]	54	[illegible]	[illegible]	[illegible]
	CNT	28	[illegible]	26	[illegible]	[illegible]	[illegible]	27	28	[illegible]	[illegible]	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28
	UQ	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38	[illegible]	45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	56	57	60		[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33	[illegible]	39	[illegible]	42	44	[illegible]	[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED								[illegible]	[illegible]	[illegible]	420	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	300	[illegible]				
	CNT							15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	UQ																								
	LQ																								
h'F	MED	300	[illegible]	295	[illegible]	[illegible]	350	220	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	195	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	21	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	28	26	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	310	300	310	300	310	320	320	300	300	300	300	300	290	290	300	300	300	300	310	320	320	320	320	310
	CNT	16	11	14	13	[illegible]	24	14	[illegible]	17	18	13	18	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
foF1	MED							[illegible]	[illegible]	390	400	[illegible]	[illegible]	430	[illegible]	430	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT							[illegible]	28	30	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
foE	MED						160	200	240	270	300	310	330	330	330	330	310	300	270	240	200	160			
	CNT						10	22	25	30	29	26	26	24	25	27	28	30	30	31	25	7			
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 20 SECONDS.

MAY, 1963

TABLE [illegible]

ST. JOHNS, NEWFOUNDLAND (47.6N, 52.7W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	32	30	27	[illegible]	[illegible]	38	42	46	48	[illegible]	52	[illegible]	[illegible]	52	[illegible]	[illegible]	54	60	62	[illegible]	[illegible]	[illegible]	41	38
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	62	[illegible]	[illegible]	[illegible]
	LQ	28	[illegible]	[illegible]	[illegible]	[illegible]	33	[illegible]	[illegible]	[illegible]	44	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED							300	[illegible]	[illegible]	[illegible]	355	[illegible]	[illegible]	375	360	[illegible]	335	300	275					
	CNT						4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7	[illegible]					
	UQ																								
	LQ																								
h'F	MED	[illegible]	300	250	265	[illegible]	[illegible]	[illegible]	[illegible]	210	200	200	200	[illegible]	[illegible]	200	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	7	9	6	6	23	28	29	26	29	27	27	28	26	26	28	23	19	16	16	29	27	22	19	18
	UQ																								
	LQ																								
M(3000)F2	MED	300	290	300	300	320	320	320	300	320	310	300	300	290	290	290	290	290	300	300	310	310	300	300	300
	CNT	14	16	11	11	20	30	26	23	24	22	26	23	25	24	27	29	29	27	28	15	6	12	14	15
	UQ																								
	LQ																								
foF1	MED							350	390	400	420	430	440	440	440	430	410	400							
	CNT						[illegible]	6	21	24	28	30	30	28	30	30	29	24	4						
foE	MED					160	205	250	280	300	310	330	330	330	320	310	300	280	250						
	CNT					5	20	21	18	22	20	23	23	20	22	26	19	12	7	2					
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 20 SECONDS.

MAY, 1963

TABLE 21

SOTTENS, SWITZERLAND (46.6N, 6.7E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	48	43	42	39	38	39	43	49	54	57	60	60	58	57	58	60	59	60	62	67	64	63	58	53
	CNT	22	24	21	25	26	27	28	24	23	24	28	27	26	30	29	26	26	25	29	23	19	22	23	24
	UQ																								
	LQ																								
h'F2	MED							310	300	300	330	310	300	320	325	320	305	315	300	290					
	CNT							7	17	25	33	24	29	26	30	29	24	23	21	12					
	UQ																								
	LQ																								
h'F	MED	250	270	270	270	260	255	225	220	210	200	200	200	200	207	210	200	210	210	235	240	240	225	235	240
	CNT	21	25	27	26	23	25	25	19	17	14	14	15	23	20	17	14	14	9	8	6	18	22	24	20
	UQ																								
	LQ																								
M(3000)F2	MED	300	300	310	305	300	305	320	320	325	325	335	320	315	310	315	315	315	310	315	320	330	320	335	315
	CNT	15	17	19	23	25	26	26	21	21	21	24	26	24	27	29	26	24	23	22	17	9	9	7	15
	UQ																								
	LQ																								
foF1	MED							340	375	400	420	430	445	450	450	450	440	425	410	375					
	CNT							5	16	14	17	22	22	21	19	18	17	19	14	6	1				
foE	MED							190	240	270	290	310	320	320	320	325	315	300	280	240					
	CNT							5	9	9	15	10	10	9	12	12	12	18	19	13	1				
h'E	MED							110	105	110	100	100	100	100	100	100	100	100	105	110					
	CNT							5	8	9	15	1	10	9	11	10	12	16	19	9	2				
foEs	MED	F	F	F	F	E	F		23	30	34	36	40	41	37	37	37	40	37	39	38	32	22	F	F	F
	CNT	26	26	26	26	26	29	29	28	28	28	30	30	31	30	31	29	29	30	29	28	24	26	26	24

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. MAY. 1963

TABLE 22

WAKKANAI, JAPAN (45.4N, 141.7E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	52	50	48	46	45	50	53	55	54	57	57	56	56	56	56	57	58	58	60	70	70	66	58	54
	CNT	30	28	28	28	29	29	29	27	27	26	27	27	27	28	30	31	30	29	29	29	30	30	31	31
	UQ	54	52	50	50	50	54	60	61	60	62	61	59	58	60	63	62	61	60	68	74	74	70	63	58
	LQ	49	46	44	42	42	46	48	51	53	53	52	52	54	54	53	55	56	56	58	63	65	59	57	49
h'F2	MED						335	290	300	330	330	340	355	370	370	360	335	320	310	290	300				
	CNT						3	23	25	26	26	27	27	27	28	30	31	29	24	15	1				
	UQ																								
	LQ																								
h'F	MED	290	280	280	270	260	245	250	240	235	230	225	220	220	220	230	235	245	260	260	260	260	255	245	230
	CNT	30	30	30	30	30	28	25	20	21	21	22	24	24	27	26	27	19	16	14	15	21	17	29	30
	UQ																								
	LQ																								
M(3000)F2	MED	295	290	295	300	310	315	315	315	320	315	305	305	300	300	300	305	305	305	300	300	295	300	300	300
	CNT	33	28	28	28	29	29	29	27	27	26	27	27	27	28	30	31	30	29	29	29	30	30	31	31
	UQ																								
	LQ																								
foF1	MED						330	380	410	420	430	440	440	450	450	440	430	410	380	320					
	CNT						3	21	22	22	22	24	26	25	28	29	28	21	15	6					
foE	MED					F	195	245	285	300	310	320	320	310	310	310	300	280	245	205					
	CNT					11	29	31	33	31	31	31	33	30	28	26	26	26	27	1					
h'E	MED																								
	CNT																								
foEs	MED	F	F	F	F	14	25	36	40	46	42	43	38	40	36	36	33	42	43	43	44	36	25	23	F
	CNT	31	31	31	31	27	25	31	31	31	30	29	30	30	30	31	30	30	31	33	25	31	31	31	31

SWEEP 1.0 MC TO 18.0 MC IN 40 SECONDS. MAY. 1963

TABLE 23

OTTAWA, CANADA (45.4N, 75.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	28	27	24	23	22	32	38	42	47	48	50	52	52	53	53	53	57	57	58	62	60	53	47	34
	CNT	29	30	26	25	24	29	30	30	31	31	31	31	31	30	30	31	31	30	30	30	32	31	31	31
	UQ	36	28	27	26	25	34	41	46	51	55	55	55	55	56	56	58	58	60	65	68	65	58	48	38
	LQ	26	21	20	20	21	30	36	40	42	46	47	48	47	49	47	47	48	51	53	58	56	50	37	30
h'F2	MED							300	300	400	400	400	400	400	400	390	390	360	330	300					
	CNT						1	11	28	31	31	30	41	31	30	30	31	31	30	29	1				
	UQ																								
	LQ																								
h'F	MED	300	300	320	330	300	250	230	215	200	200	200	200	200	200	200	210	220	220	250	270	240	240	250	280
	CNT	28	29	25	23	23	29	30	29	30	30	31	31	30	28	27	29	28	27	26	28	30	31	31	31
	UQ																								
	LQ																								
M(3000)F2	MED	310					320	340	320	320	300	310	300	300	300	290	300	300	300	310		300	320		
	CNT	7	1	4	1	1	14	16	12	16	19	15	18	19	19	21	29	29	28	24	12	7	6	3	3
	UQ																								
	LQ																								
foF1	MED							370	390	410	420	433	440	450	450	440	431	420	400	350					
	CNT						1	6	28	31	31	31	31	31	29	30	31	30	29	30					
foE	MED						180	230	270	300	320	330		340	350	330	320	300	270	230					
	CNT						8	9	11	8	7	5	3	5	9	12	12	9	7	5	2				
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 16 SECONDS. MAY. 1963

TABLE 24

ROME, ITALY (41.8N, 12.5E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	2	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	50	48	47	44	40	43	51	59	61	62	61	66	61	62	63	66	66	66	70	81	82	71	62	56
	CNT	26	24	22	25	25	25	25	25	25	25	28	25	28	30	28	28	28	26	27	26	29	23	21	24
	UQ	54	51	50	47	44	48	56	67	68	65	65	68	66	69	69	70	70	68	79	84	88	78	66	59
	LQ	48	45	42	41	37	39	45	54	58	59	59	59	58	57	59	62	62	61	63	74	74	64	57	52
h'F2	MED								350	290	290	310	310	335	335	340	315	310							
	CNT								2	14	19	20	22	22	26	23	20	11	3						
	UQ								370	330	320	340	350	360	360	335	330								
	LQ								320	260	280	295	300	310	320	310	305	290							
h'F	MED	290	290	290	290	280	260	240	240	240	220	210	210	210	215	230	240	240	260	260	260	250	240	250	260
	CNT	24	26	25	28	25	24	20	17	13	13	18	22	19	16	16	15	9	11	9	20	24	27	21	21
	UQ	295	300	300	300	290	280	250	250	245	230	220	210	220	235	250	240	240	250	270	260	250	250	255	285
	LQ	265	280	275	270	255	250	240	235	220	210	200	200	210	200	210	220	225	220	240	250	240	230	240	260
M(3000)F2	MED	285	280	280	290	290	300	305	315	320	320	305	305	300	295	295	300	305	300	305	300	310	315	305	295
	CNT	25	25	22	25	24	25	25	25	25	25	28	25	28	30	28	28	28	26	18	26	20	22	21	23
	UQ	295	290	295	290	300	310	320	330	335	330	320	315	310	310	300	310	320	310	315	310	320	320	310	300
	LQ	275	275	270	280	280	290	295	300	310	305	300	295	295	285	285	300	300	295	295	300	300	300	295	290
foF1	MED								430	420	430	440	440	460	460	450	440	430							
	CNT							3	5	13	19	21	23	22	22	22	19	8	3						
foE	MED							210	260	290	310	320	340	340	330	330	320	300	270	220					
	CNT						3	27	27	29	26	30	28	23	23	19	26	29	29	27					
h'E	MED							120	110	110	110	110	110	110	110	110	110	110	110	120					
	CNT						2	26	28	29	28	31	31	31	30	31	29	31	31	30					
foEs	MED																								
	CNT	30	30	30	30	30	29	28	28	29	28	31	31	30	30	31	30	31	31	31	29	29	29	30	30

SWEEP 1.4 MC TO 15.0 MC IN 5 MINUTES. AUTOMATIC. MAY. 1963

TABLE 25

AKITA, JAPAN (39.7N, 140.1E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	51	50	50	46	46	49	57	60	61	61	59	60	62	64	64	66	66	66	67	73	69	63	58	54
	CNT	21	23	25	26	27	29	27	26	27	27	28	28	26	28	30	30	30	27	23	17	16	16	17	11
	UQ	58	55	52	50	48	54	65	67	64	66	62	62	64	66	69	73	70	68	70	80	76	66	64	60
	LQ	48	42	44	42	40	44	50	56	57	58	55	55	57	58	58	61	62	62	63	62	62	60	52	50
h'F2	MED						290	270	270	300	310	330	355	350	350	345	325	305	300	290					
	CNT						7	22	22	26	27	28	28	27	28	30	30	29	24	14					
	UQ																								
	LQ																								
h'F	MED	270	290	280	275	260	245	245	U 240	U 235	U 240	U 220	215	220	230	225	240	240	245	250	255	250	255	250	280
	CNT	25	27	27	27	28	27	17	9	10	15	14	16	17	20	19	16	14	8	11	19	23	24	25	25
	UQ																								
	LQ																								
M(3000)F2	MED	290	290	295	300	300	325	325	330	330	325	310	295	330	300	310	310	315	310	310	315	310	300	300	U 295
	CNT	21	23	25	26	27	28	27	26	26	27	28	28	26	28	30	29	29	27	23	27	16	16	17	21
	UQ																								
	LQ																								
foF1	MED							360	410	U 440	450	460	460	460	460	450	430	420	380						
	CNT							2	5	6	15	17	21	19	23	24	22	11	1						
foE	MED						195	250	U 280	U 300	315	325	330	340	340	330	315	290	250						
	CNT						2	4	2	2	1	1	1	1	2	8	17	12	2						
h'E	MED																								
	CNT																								
foEs	MED	22	24	20	20		22	34	44	51	48	46	[illegible]	45	40	39	38	42	51	53	56	51	31	29	26
	CNT	30	30	30	30	30	30	30	30	30	30	30	31	29	29	31	27	29	30	31	31	31	31	30	30

SWEEP 1.6 MC TO 20.0 MC IN 20 SECONDS. MAY, 1963

TABLE 26

TEHRAN, IRAN (35.7N, 51.4E) TIME 52.5E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	52	50	46	44	42	42	53	60	62	64	68	75	76	77	76	78	76	68	66	69	66	62	60	57
	CNT	20	24	24	23	26	30	29	29	27	23	24	27	27	26	28	25	28	25	24	26	24	25	25	18
	UQ	57	54	52	50	44	47	56	66	66	70	76	78	79	79	82	80	78	74	71	72	70	64	62	60
	LQ	49	46	41	42	38	40	51	57	59	62	64	66	74	73	72	70	68	64	64	66	64	56	57	54
h'F2	MED							270	270	280	305	320	330	320	320	315	300	290	280	270					
	CNT							7	19	21	13	18	25	25	27	29	28	28	26	13					
	UQ																								
	LQ																								
h'F	MED	270	275	270	270	270	260	240	240	240	[illegible]	210	205	200	210	220	[illegible]	[illegible]	240	255	260	255	260	260	260
	CNT	21	26	25	23	24	29	28	17	9	9	15	14	16	14	16	15	16	14	11	17	20	19	19	17
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED							350	410	420	440	460	470	470	470	460	440	420	400						
	CNT							2	4	9	15	13	14	15	17	[illegible]	[illegible]	13	7						
foE	MED							200	250	290	310	330	330	340	340	330	320	300	260	200					
	CNT							16	26	23	18	11	10	4	7	11	19	23	23	6					
h'E	MED							115	110	110	105	105	[illegible]	[illegible]	105	105	110	110	110	120					
	CNT																								
foEs	MED	26	24	24	26	25	[illegible]	30	37	[illegible]	[illegible]	48	56	[illegible]	44	41	38	39	38	[illegible]	38	44	40	39	38
	CNT	30	30	29	30	29	30	30	30	30	30	28	[illegible]	28	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	30	29	29

SWEEP 1.0 MC TO 15.0 MC IN 20 SECONDS. MAY, 1963

TABLE 27

KOKUBUNJI, TOKYO, JAPAN (35.7N, 139.5E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	49	46	45	44	44	48	57	63	62	61	61	61	66	64	71	74	74	72	72	76	70	[illegible]	58	54
	CNT	23	26	23	26	27	28	25	24	24	23	24	[illegible]	27	27	24	27	27	26	26	26	27	[illegible]	24	[illegible]
	UQ	55	53	51	47	46	51	63	68	68	66	64	67	71	72	79	84	79	79	77	82	75	64	60	67
	LQ	43	43	40	38	35	44	52	58	59	57	58	58	59	61	63	68	69	70	68	70	59	[illegible]	[illegible]	45
h'F2	MED							260	265	275	280	310	350	345	350	340	310	295	290	[illegible]					
	CNT							12	21	17	13	15	14	20	24	25	26	26	20						
	UQ																								
	LQ																								
h'F	MED	280	300	280	260	260	F 250	245	235	245	U 235	E 255	F 295	F 280	245	230	245	245	250	255	[illegible]	F 255	260	275	280
	CNT	24	25	28	28	28	28	18	12	5	4	6	6	6	5	6	9	9	9	13	20	21	18	18	21
	UQ																								
	LQ																								
M(3000)F2	MED	290	280	290	300	295	310	330	330	330	320	310	310	295	295	295	[illegible]	315	310	315	315	310	300	290	290
	CNT	21	25	20	24	23	28	25	24	23	21	23	23	27	26	27	27	27	26	[illegible]	25	22	[illegible]	24	19
	UQ																								
	LQ																								
foF1	MED									U 450	460	460	480	460	460	450	450	U 420	U 400						
	CNT									3	1	3	4	3	4	10	10	4	[illegible]						
foE	MED							240	U 270	U 300	U 330	U 340	330	356	350	340	320	290	250						
	CNT							14	23	14	8	5	1	1	3	3	9	16	3						
h'E	MED																								
	CNT																								
foEs	MED	40	34	26	27	24	25	33	58	58	66	57	58	52	54	52	48	48	51	56	54	55	53	58	48
	CNT	26	26	30	29	28	17	28	28	29	28	29	29	22	25	20	23	26	24	29	27	30	27	29	19

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS. MAY, 1963

TABLE 28

YAMAGAWA, JAPAN (31.2N, 130.6E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	55	54	53	46	43	42	54	62	62	[illegible]	61	67	75	83	85	[illegible]	[illegible]	86	82	80	72	[illegible]	54	54
	CNT	11	11	15	24	25	16	[illegible]	28	26	25	23	25	[illegible]	8	28	[illegible]	29	28	[illegible]	[illegible]	18	[illegible]	17	10
	UQ	59	59	61	53	52	49	58	66	66	66	67	73	86	88	91	100	100	93	[illegible]	88	78	62	56	60
	LQ	49	45	44	36	35	36	50	59	57	60	57	60	63	73	78	[illegible]	86	79	[illegible]	64	59	56	51	52
h'F2	MED							335	260	[illegible]	[illegible]	330	340	[illegible]	[illegible]	340	[illegible]	[illegible]	290	280					
	CNT							[illegible]	16	22	21	21	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]					
	UQ																								
	LQ																								
h'F	MED	300	300	290	275	275	275	250	250	240	250	240	240	250	[illegible]	250	240	245	250	255	255	265	275	300	290
	CNT	18	20	24	28	28	27	29	18	8	8	6	8	8	11	12	12	12	10	1	22	[illegible]	[illegible]	[illegible]	19
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	290	295	335	310	310	335	340	335	[illegible]	310	[illegible]	285	285	290	300	310	315	310	315	310	300	290	290
	CNT	11	11	15	24	25	26	29	28	25	25	22	25	24	28	8	[illegible]	29	8	26	[illegible]	19	[illegible]	17	10
	UQ																								
	LQ																								
foF1	MED								380	[illegible]	450	470	480	480	470	470	450	430	410	360					
	CNT								4	4	7	7	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	7	7					
foE	MED							190	245	290	[illegible]	320	[illegible]	[illegible]	[illegible]	335	[illegible]	[illegible]	270	[illegible]					
	CNT							6	25	27	26	22	14	[illegible]		4	[illegible]	[illegible]	23	26					
h'E	MED																								
	CNT																								
foEs	MED	36	41	38	33	34	34	30	38	53	59	63	67	56	52	47	44	50	56	54	52	53	53	49	43
	CNT	29	25	23	25	23	18	28	29	30	30	30	31	30	32	28	34	30	30	30	31	29	27	26	27

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS. MAY, 1963

TABLE 29

TAIPEI (TAIWAN), CHINA (25.0N, 121.5E) TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	54	49	[illegible]	40	56	62	[illegible]	66	75	[illegible]	[illegible]	[illegible]	118	125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	64	[illegible]	[illegible]
	CNT	24	[illegible]	[illegible]	[illegible]	24	28	[illegible]	[illegible]	[illegible]	25	28	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	20
	UQ	[illegible]	[illegible]	70	57	[illegible]	[illegible]	[illegible]	68	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	118	[illegible]	[illegible]	84	[illegible]	71	74
	LQ	54	[illegible]	48	[illegible]	[illegible]	[illegible]	54	[illegible]	[illegible]	[illegible]	[illegible]	84	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
	CNT							[illegible]	13	[illegible]	[illegible]	[illegible]		[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]						
	UQ																								
	LQ																								
h'F	MED	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	235	[illegible]	[illegible]	225	[illegible]	[illegible]	[illegible]	[illegible]	250	285	315	320
	CNT	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	17	11	8	6	8	5	4	7	10	11	12	[illegible]	[illegible]	30	[illegible]	[illegible]	25
	UQ																								
	LQ																								
M(3000)F2	MED	285	300	[illegible]	[illegible]	[illegible]	[illegible]	340	[illegible]	[illegible]	285	265	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	315	[illegible]	315	305	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	24	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	430	340	355	345	325	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	285	300
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	290	[illegible]	330	[illegible]	[illegible]	280	[illegible]	[illegible]	275	285	295	[illegible]	305	310	305	305	[illegible]	[illegible]	[illegible]	[illegible]
foF1	MED										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]								
	CNT										[illegible]	[illegible]	1	[illegible]	1	4	[illegible]								
foE	MED											[illegible]					[illegible]								
	CNT											[illegible]					1								
h'E	MED								[illegible]	[illegible]	111	[illegible]	[illegible]				116		[illegible]						
	CNT								[illegible]	1	3	3	[illegible]				[illegible]		[illegible]						
foEs	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		38	53	64	64	[illegible]	[illegible]	[illegible]	49	60	[illegible]	47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	50
	CNT	29	[illegible]	[illegible]	29	28	[illegible]	25	29	[illegible]	30	31	[illegible]	27	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	29	[illegible]	29

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. MAY, 1963

TABLE 30

EL CERILLO, MEXICO (19.3N, 99.5W) TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	53	56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	102	[illegible]	[illegible]	[illegible]	[illegible]	43
	CNT	31	31	31	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	31	31	31	31	[illegible]	[illegible]	[illegible]	30	30
	UQ	51	48	52	44	42	43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	108	[illegible]	[illegible]	108	[illegible]	88	[illegible]	[illegible]	55
	LQ	37	38	38	37	32	[illegible]	[illegible]	49	54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	86	88	[illegible]	[illegible]	44	39
h'F2	MED								[illegible]	[illegible]	[illegible]	[illegible]	380	[illegible]	350	[illegible]	[illegible]	300	275	258					
	CNT								[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	[illegible]					
	UQ									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	LQ									[illegible]	[illegible]	[illegible]	350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	255					
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	232	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	280
	CNT	31	31	[illegible]	31	[illegible]	30	[illegible]	31	31	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30
	UQ	310	300	270	280	270	[illegible]	[illegible]	[illegible]	250	[illegible]	235	[illegible]	240	238	245	[illegible]	250	250	[illegible]	[illegible]	330	[illegible]	280	300
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	200	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	228	[illegible]	[illegible]	[illegible]	[illegible]	260
M(3000)F2	MED	[illegible]	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	330	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	310	300	[illegible]	320	330	340	330	[illegible]	300	300
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	31	31	[illegible]	31	31	[illegible]	[illegible]	30
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	345	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	310	[illegible]	330	340	350	340	330	320	300
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	325	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	300	310	320	330	315	300	295	290
foF1	MED									430	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	450	430	410						
	CNT								1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]	20	21	19						
foE	MED								[illegible]	[illegible]	[illegible]	320	[illegible]	340	[illegible]	[illegible]	320	310	270	212					
	CNT								19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	25	18					
h'E	MED								[illegible]	[illegible]	[illegible]	[illegible]	105	[illegible]	[illegible]	[illegible]	103	105	107	111					
	CNT								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	25	18					
foEs	MED	37	32	34	40	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	46	[illegible]	[illegible]	[illegible]	42	42	40	[illegible]	42	50	[illegible]	44	39
	CNT	19	20	23	23	[illegible]	25	[illegible]	[illegible]	31	31	[illegible]	[illegible]	[illegible]	[illegible]	28	31	31	31	31	29	30	28	28	26

SWEEP 1.0 MC TO 25.0 MC IN 36 SECONDS. MAY, 1963

TABLE 31

GODLEY HEAD (CHRISTCHURCH), N.Z. (43.6S, 172.8E) TIME 180.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	32	[illegible]	[illegible]	31	[illegible]	31	28	26	42	[illegible]	56	58	[illegible]	60	62	61	60	[illegible]	47	42	38	34	32	32
	CNT	14	15	17	17	20	18	20	25	31	30	27	30	[illegible]	28	31	30	30	[illegible]	31	[illegible]	[illegible]	[illegible]	24	17
	UQ																								
	LQ																								
h'F2	MED										220	230	240	[illegible]	[illegible]	250	240	230	210						
	CNT										[illegible]	24	[illegible]	31	[illegible]	28	[illegible]	[illegible]	1						
	UQ																								
	LQ																								
h'F	MED	260	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	200	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	250	250	250	[illegible]
	CNT	26	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	28	[illegible]	[illegible]	19	26	[illegible]	[illegible]	30	[illegible]	[illegible]	30	28	[illegible]	30
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	315	315	[illegible]	[illegible]	350	330	[illegible]	[illegible]	[illegible]	380	[illegible]	[illegible]	360	[illegible]	370	370	340	340	330	[illegible]	[illegible]	[illegible]
	CNT	14	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	31	[illegible]	27	[illegible]	[illegible]	28	31	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]	21	[illegible]	17
	UQ																								
	LQ																								
foF1	MED										[illegible]	380	410	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
	CNT										[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]								
foE	MED				[illegible]					[illegible]	[illegible]	270	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	160	[illegible]					
	CNT			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	21	20	[illegible]	[illegible]	16	[illegible]	[illegible]	17	[illegible]				1	
h'E	MED									[illegible]	105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
	CNT									[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18							
foEs	MED	26	27	[illegible]	25	25	24	25	26	[illegible]	33	35	[illegible]	[illegible]	[illegible]	34	[illegible]	[illegible]	[illegible]		[illegible]	17	17	17	19
	CNT	31	31	31	31	[illegible]	31	31	31	31	31	[illegible]	[illegible]	31	31	[illegible]	[illegible]	[illegible]	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. MAY, 1963

TABLE 32

RESOLUTE BAY, CANADA (74.7N, 94.9W) TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	38	37	[illegible]	[illegible]	37	37	38	40	40	40	[illegible]	[illegible]	[illegible]	42	[illegible]	42	42	40	[illegible]	40	40	40	37	36
	CNT	29	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]	28	8	27	[illegible]	[illegible]	[illegible]	[illegible]	28	28	[illegible]	28	29	30	[illegible]	30	30
	UQ	40	42	42	40	40	40	40	42	42	45	44	45	44	48	46	47	49	[illegible]	48	47	46	44	42	40
	LQ	34	[illegible]	31	[illegible]	[illegible]	34	35	37	37	38	37	37	[illegible]	40	38	37	38	37	[illegible]	37	37	34	34	[illegible]
h'F2	MED						280	325	[illegible]	400	[illegible]	400	[illegible]	[illegible]	400	420	405	370	335	300	300	270			
	CNT					[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	26	[illegible]	20	11	8			
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	200	[illegible]	[illegible]	205	205	205	210	210	230	240	240	240	245
	CNT	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	28	28	28	[illegible]	28	29	29	[illegible]	30
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	320	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	290	300	[illegible]	300	300	310	310	310	[illegible]	[illegible]	310
	CNT	24	24	22	[illegible]	[illegible]	25	[illegible]	[illegible]	[illegible]	16	[illegible]	14	16	14	13	12	17	21	17	23	21	24	25	23
	UQ																								
	LQ																								
foF1	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	360	[illegible]	[illegible]	370	360	350	340	330	310				
	CNT							1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	17	[illegible]	1			
foE	MED	110	120	120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	250	250	240	220	210	180	160	140	[illegible]	120
	CNT	1	12	15	17	[illegible]	28	[illegible]	[illegible]	[illegible]	29	[illegible]	29	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	26	24	17	[illegible]
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 16 SECONDS. APRIL, 1963

TABLE 33

LYCKSELE, SWEDEN (64.7N, 18.8E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	23	20	20	21	25	[illegible]	37	40	43	46	48	50	50	50	50	[illegible]	50	48	[illegible]	[illegible]	40	[illegible]	[illegible]	[illegible]
	CNT	27	27	26	26	27	28	28	29	29	29	29	30	30	[illegible]	30	30	28	29	29	30	28	[illegible]	[illegible]	[illegible]
	UQ	25	25	23	23	26	[illegible]	[illegible]	43	46	49	51	54	54	55	54	54	[illegible]	50	[illegible]	47	45	[illegible]	[illegible]	30
	LQ	21	17	14	17	[illegible]	[illegible]	[illegible]	37	[illegible]	[illegible]	[illegible]	[illegible]	47	[illegible]	45	[illegible]	[illegible]	44	43	43	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED						[illegible]	340	400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	290	[illegible]					
	CNT						1	6	17	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	8	[illegible]					
	UQ							[illegible]		500	440	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	315						
	LQ							310	330	[illegible]	[illegible]	[illegible]	305	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	230	220	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	26	24	[illegible]	25	[illegible]	28	28	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	285	[illegible]	235	235	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	300
	LQ	260	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	215	210	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
M(3000)F2	MED	280	280	280	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	310	[illegible]	[illegible]	[illegible]	[illegible]	310	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	280
	CNT	27	[illegible]	[illegible]	[illegible]	[illegible]	28	28	29	[illegible]	29	[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	28	[illegible]	[illegible]	27
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	310	310	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	310	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	295	280	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	295	[illegible]	[illegible]	[illegible]
foF1	MED						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	[illegible]					
foE	MED			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	CNT			1	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
h'E	MED			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	CNT			1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	
foEs	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		18
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 0.33 MC TO 20.0 MC IN 3 MINUTES. APRIL, 1963

TABLE 34

CHURCHILL, CANADA (58.8N, 94.2W) TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	31	28	24	[illegible]	35	[illegible]	42	44	44	45	46	[illegible]	48	49	50	48	46	42	38	35	32	30
	CNT	19	[illegible]	15	20	[illegible]	[illegible]	21	[illegible]	22	21	25	25	26	[illegible]	28	[illegible]	[illegible]	30	29	28	27	21	18	24
	UQ	37	[illegible]	33	[illegible]	31	34	37	41	43	46	[illegible]	48	50	[illegible]	52	54	54	53	50	48	42	40	36	36
	LQ	[illegible]	[illegible]	[illegible]	24	24	[illegible]	32	36	40	42	[illegible]	43	[illegible]	43	43	44	44	44	42	38	35	33	30	27
h'F2	MED								[illegible]	[illegible]	[illegible]	445	[illegible]	[illegible]	[illegible]	[illegible]	380	[illegible]	330	[illegible]					
	CNT							2		[illegible]	2	[illegible]	24	24	[illegible]	27	[illegible]	30	[illegible]	[illegible]	1				
	UQ																								
	LQ																								
h'F	MED	290	280	260	285	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	200	[illegible]	[illegible]	200	200	210	220	215	[illegible]	250	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	14	[illegible]	[illegible]	[illegible]	[illegible]	22	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	22	16	13	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	280	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	300	[illegible]	[illegible]	[illegible]	[illegible]	300	300
	CNT		8	[illegible]	8	[illegible]	[illegible]	[illegible]	12	14	16	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	22	13	[illegible]	10	[illegible]
	UQ																								
	LQ																								
foF1	MED								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT								[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	8					
foE	MED									[illegible]	[illegible]	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	240	[illegible]	160				
	CNT							3	[illegible]	1	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	14	[illegible]				
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 16 SECONDS. APRIL, 1963

TABLE 35

INVERNE[illegible], [illegible]TLAND ([illegible]57.4N, [illegible]W) TIME [illegible]

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
h'F2	MED									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
foF1	MED									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
foE	MED						[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	CNT							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
h'E	MED						[illegible]	130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	CNT							21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
foEs	MED	[illegible]	[illegible]	[illegible]	[illegible]	F 10	12	E 18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	26	26	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC. APRIL, 1963

TABLE 36

[illegible], ENGLAN[illegible] ([illegible]N, [illegible]W) TIME [illegible]

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]					
	UQ								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	LQ								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
foF1	MED								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
foE	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'E	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
	CNT							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
foEs	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] .67 MC TO [illegible] MC IN 5 MINUTES, AUTOMATIC. APRIL, 1963

DOURBES, BELGIUM (50.1N, 4.6E) TIME

HOUR		00	01	02	03	04	05	06	07	08	09	0	1	12	13	14	15	16	7	8	19	20	2	22	23
foF2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 2.0 MC IN 3 MINUTES. APRIL, 1963

WINNIPEG, MANITOBA TIME

HOUR		00	0	02	03	04	05	06	07	08	09	10		2	13	14	5	16	7	18	19	20	2	22	23
foF2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 20 SECONDS. APRIL, 1963

ST. JOHNS, NEWFOUNDLAND (47.6N, 52.7W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09			2	13	4	5	16	17	8	9	20	2	22	23
foF2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	U 290		U 280		U 290		U 290																	
	CNT	8		8		7		6,																	
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 20 SECONDS. APRIL, 1963

TABLE 60

[illegible] TIME

HOUR		00	01	02	03	04	05	06	07	08	09	10	1	2	3	4	5	16	17	8	19	20	21	22	23
foF2	MED							35	41																
	CNT								26																
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED					260	255	240	225																
	CNT					29	26	28	29																
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. APRIL, 1963

TABLE 41

WAKKANAI, JAPAN (45.4N, 141.7E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	43	43	43	41	39	43	48	53	58	62	64	68	67	66	66	64	61	58	58	63	58	55	50	48
	CNT	27	27	27	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29
	UQ	45	45	44	44	42	45	53	55	61	64	69	73	75	71	69	68	64	62	62	68	63	58	51	48
	LQ	41	40	40	38	36	40	46	51	53	58	60	63	63	62	64	62	58	54	55	58	56	52	45	43
h'F2	MED							310	280	290	295	290	300	300	310	290	280	270	265						
	CNT							2	14	30	30	30	30	30	30	30	30	28	2						
	UQ																								
	LQ																								
h'F	MED	300	290	275	255	250	250	240	235	235	230	220	215	215	215	215	235	240	250	250	250	260	260	270	285
	CNT	30	30	30	30	30	30	30	30	29	29	29	29	29	29	29	29	30	29	29	29	30	30	30	30
	UQ																								
	LQ																								
M(3000)F2	MED	290	290	300	300	315	325	340	335	330	325	330	320	320	315	325	330	330	330	330	310	310	305	300	300
	CNT	27	27	27	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29
	UQ																								
	LQ																								
foF1	MED							380	400	410	430	430	430	440	440	430	410	400	350						
	CNT							2	14	28	29	30	29	29	29	29	30	28	1						
foE	MED						170	220	260	290	305	310	310	315	310	300	290	260	225						
	CNT						4	18	30	30	30	30	30	29	29	29	29	26	9						
h'E	MED																								
	CNT																								
foEs	MED	F	F	F	F	F	22	G	G	G	35	G	G	G	G	G	G	G	39	25	F	F	F	F	F
	CNT	30	30	30	30	30	3	22	30	30	29	3	22	30	30	30	30	28	18	1	[illegible]	[illegible]	[illegible]	30	30

SWEEP 1.0 MC TO 18.0 MC IN 40 SECONDS. APRIL, 1963

TABLE 42

OTTAWA, CANADA (45.4N, 75.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	23	20	20	20	20	24	36	40	45	48	50	51	51	52	52	53	52	54	54	56	53	42	32	27
	CNT	24	22	20	14	9	26	30	30	30	30	30	30	30	30	29	29	30	30	30	30	30	30	[illegible]	27
	UQ	26	23	23	21	22	25	38	45	50	52	56	52	56	55	58	[illegible]	[illegible]	60	62	64	58	47	38	33
	LQ	20	20	20	18	18	20	32	33	40	43	45	45	46	48	50	[illegible]	46	50	50	49	48	38	28	22
h'F2	MED								300	350	350	350	390	400	380	375	360	340	300	295					
	CNT							3	19	30	30	30	30	30	30	29	24	30	30	21					
	UQ																								
	LQ																								
h'F	MED	310	F 350	E 400	F 350	370	300	240	230	210	205	200	200	200	230	225	220	230	240	250	250	240	240	270	295
	CNT	24	20	19	14	9	25	30	33	30	30	30	30	28	28	28	27	27	27	28	30	30	29	28	27
	UQ																								
	LQ																								
M(3000)F2	MED							340	340	330	320	320	320	300	310	300	300	310	300	310	310	[illegible]		300	300
	CNT	3	2	2			[illegible]	18	8	11	15	15	16	21	24	23	24	27	28	24	13	[illegible]	4	7	6
	UQ																								
	LQ																								
foF1	MED								380	400	410	420	430	430	430	420	410	400	370						
	CNT							1	9	26	28	30	30	30	30	29	28	28	18	4					
foE	MED							180	240	270	300	310	320	330	330	310	300	280	240	200					
	CNT							14	17	17	12	13	10	14	14	15	14	13	10	7					
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 16 SECONDS. APRIL, 1963

TABLE 43

AKITA, JAPAN (39.7N, 140.1E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	45	44	44	42	36	41	54	58	62	66	70	72	77	75	75	74	70	62	64	65	61	52	47	45
	CNT	20	20	19	21	23	25	24	28	28	30	29	28	27	27	28	29	30	30	24	26	23	16	14	17
	UQ	48	46	46	46	[illegible]	46	56	60	66	71	76	76	79	81	81	78	74	65	68	72	63	58	[illegible]	50
	LQ	42	41	41	38	32	38	51	55	60	61	64	68	71	71	71	68	[illegible]	[illegible]	61	[illegible]	56	[illegible]	44	43
h'F2	MED							270	250	270	290	295	300	295	295	295	285	260	255	280					
	CNT							2	18	28	30	29	29	28	24	23	28	28	18	[illegible]					
	UQ																								
	LQ																								
h'F	MED	290	290	280	245	245	250	245	245	240	230	220	220	205	205	210	230	240	245	245	[illegible]	240	245	270	275
	CNT	28	28	28	27	27	29	27	25	23	24	23	27	26	27	27	26	26	27	28	[illegible]	30	30	28	28
	UQ																								
	LQ																								
M(3000)F2	MED	290	290	300	310	310	315	340	345	340	335	325	320	320	320	320	335	335	335	320	330	325	310	300	300
	CNT	20	20	19	21	23	25	29	28	28	30	29	28	27	27	28	24	[illegible]	30	29	26	24	16	16	[illegible]
	UQ																								
	LQ																								
foF1	MED									420	440	450	450	460	450	440	420	340							
	CNT									3	15	21	24	25	26	20	8	3							
foE	MED							220	265	290	310	325	340	340	340	320	300	270	230						
	CNT						1	7	7	11	9	5	6	6	8	9	13	14	11						
h'E	MED																								
	CNT																								
foEs	MED	F	F	F	F	F	F	25	32	36	38	38	38	37	36	35	33	32	27	22	22	22	[illegible]	F	F
	CNT	29	28	28	27	29	28	29	28	28	30	26	24	28	24	29	28	28	24	29	30	30	30	30	30

SWEEP 1.6 MC TO 20.0 MC IN 20 SECONDS. APRIL, 1963

TABLE 44

TEHRAN, IRAN (35.7N, 51.4E) TIME 52.5E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	48	40	39	37	34	33	48	57	62	63	67	74	75	74	74	74	70	70	70	65	56	52	47	50
	CNT	17	27	29	29	29	23	26	19	18	26	[illegible]	26	21	19	22	26	27	[illegible]	[illegible]	27	21	17	[illegible]	14
	UQ	50	46	43	[illegible]	37	[illegible]	51	61	[illegible]	[illegible]	74	76	78	76	75	77	76	73	74	72	65	55	[illegible]	51
	LQ	41	36	36	34	32	[illegible]	45	54	56	52	63	62	[illegible]	[illegible]	70	68	64	64	64	[illegible]	50	48	44	44
h'F2	MED								260	275	290	295	300	300	300	295	[illegible]	260	270	270					
	CNT								12	18	27	26	17	24	22	24	[illegible]	27	[illegible]	3					
	UQ																								
	LQ																								
h'F	MED	290	280	280	255	[illegible]	[illegible]	240	[illegible]	220	210	210	200	210	210	[illegible]	[illegible]	240	[illegible]	240	240	240	250	[illegible]	[illegible]
	CNT	15	27	29	29	24	28	26	22	18	22	22	24	16	12	18	22	25	[illegible]	14	13	[illegible]	14	[illegible]	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED									400	420	440	450	440	[illegible]	440	430	440							
	CNT									[illegible]	[illegible]	8	18	[illegible]	[illegible]		17								
foE	MED							200	230	270	300	[illegible]	330	330	330	320	300	[illegible]	[illegible]	[illegible]					
	CNT							6	11	10	9	11	14	13	13	13	16	[illegible]	[illegible]	5					
h'E	MED							120	115	[illegible]	[illegible]	[illegible]	110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT							[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
foEs	MED	F	F	14	F	F	F	23	26	32	32	32		G		G	33	[illegible]	[illegible]	27	[illegible]		19	[illegible]	F
	CNT	16	26	28	29	28	29	27	20	18	27	[illegible]	25	15	13	19	22	27	26	25	25	[illegible]	16	1	13

SWEEP 1.0 MC TO 15.0 MC IN 20 SECONDS. APRIL, 1963

TABLE 46

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS.

APRIL, 1963

TABLE 47

TAIPEI (TAIWAN), CHINA (25.0N, 121.5E) TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

APRIL, 1963

TABLE 48

SINGAPORE, BRITISH MALAYA (1.3N, 103.8E) TIME 105.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	68	60	40	32	27	24	36	66	84	97	99	101												
	CNT	27	25	27	28	25	23	28	28	28	28	29	28												
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED		355	340	335	335	355	340	330	310	295	260													
	CNT		24	23	27	24	21	28	27	28	28	29													
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																	355	340						
	CNT																	23	19						
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES, ALTERNATE

APRIL, 1963

TABLE 49

RAROTONGA, COOK IS. (21.2S, 159.8W) TIME 165.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	41	38	37	32	29	29	45	78	78	82	[illegible]	88	73	76	78	78	[illegible]	68	61	60	[illegible]	44	44	42
	CNT	27	28	28	28	28	26	26	23	26	28	27	28	28	29	28	29	29	27	26	28	28	[illegible]	24	26
	UQ																								
	LQ																								
h'F2	MED								240	250	250	250	250	260	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
	CNT								8	25	27	28	28	28	28	28	27	14	[illegible]						
	UQ																								
	LQ																								
h'F	MED	270	260	250	250	290	270	250	230	220	210	210	210	230	230	240	240	240	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	29	29	28	28	28	27	26	26	[illegible]	27	24	21	22	14	20	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29
	UQ																								
	LQ																								
M(3000)F2	MED	330	330	340	330	320	330	365	390	380	380	380	380	370	360	360	365	365	365	350	355	340	340	345	330
	CNT	27	28	28	28	28	26	26	23	26	28	27	28	28	29	28	29	29	27	26	28	28	26	24	26
	UQ																								
	LQ																								
foF1	MED									410	430	440	450	440	440	430	[illegible]								
	CNT									3	21	24	24	[illegible]	[illegible]	14	[illegible]								
foE	MED							150	230	280	310	330	340	340	330	330	320	250	[illegible]						
	CNT							15	19	18	22	17	15	15	7	[illegible]	10	5	1						
h'E	MED							140	100	100	100	100	[illegible]	100	100	100	100	100	[illegible]						
	CNT							13	24	25	28	28	28	[illegible]	26	28	23	13							
foEs	MED	J 28	J 23	J 24	J 24	J 24	J 24	J 22	J 32	[illegible]	36	[illegible]	[illegible]	42	44	44	46	42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]
	CNT	22	20	21	18	21	21	24	26	[illegible]	27	27	27	28	29	29	30	[illegible]	30	24	[illegible]	28	[illegible]	[illegible]	[illegible]

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. APRIL, 1963

TABLE 50

JOHANNESBURG, UNION OF S. AFRICA (26.1S, 28.1E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	34	33	33	34	33	32	32	55	62	69	75	80	74	78	86	84	81	74	63	45	34	36	36	34
	CNT	[illegible]	30	30	[illegible]	30	30	30	30	30	30	30	30	30	30	30	[illegible]	[illegible]	30	30	30	[illegible]	30	30	30
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	240	F 240	F 240	F 230	F 220	F 225	215	215	215	[illegible]	205	200	195	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	210	200	F [illegible]	F 225	F 225	F 230
	CNT	28	28	29	29	30	30	29	[illegible]	30	29	27	25	26	[illegible]	[illegible]	[illegible]	[illegible]	26	30	28	[illegible]	29	7	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	310	310	310	320	320	325	325	360	360	[illegible]	[illegible]	335	325	[illegible]	315	320	[illegible]	345	350	340	[illegible]	[illegible]	330	320
	CNT	30	30	30	30	30	30	30	30	30	31	30	30	31	30	31	31	30	30	30	30	30	30	30	30
	UQ																								
	LQ																								
foF1	MED											450	460	450	450	450	420		230						
	CNT											6	11	19	8	4	2		[illegible]						
foE	MED								190	260	290	[illegible]	330	[illegible]	[illegible]	[illegible]	300	[illegible]	[illegible]	140					
	CNT								29	29	28	25	25	32	[illegible]	24	22	22	14	[illegible]					
h'E	MED																								
	CNT																								
foEs	MED	21	J [illegible]	28	[illegible]	[illegible]	18	17	[illegible]	28	[illegible]	34	37	37	38	34	36	41	J [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]
	CNT	[illegible]	30	25	[illegible]	29	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]

SWEEP 1.0 MC TO 15.0 MC IN 7 SECONDS. APRIL, 1963

TABLE 51

CAPETOWN, UNION OF S. AFRICA (34.1S, 18.3E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	30	32	30	31	32	33	32	41	56	62	68	70	76	82	85	83	80	76	68	50	31	33	33	31
	CNT	[illegible]	30	30	30	30	29	29	29	[illegible]	[illegible]	30	30	28	28	29	30	30	30	30	30	30	30	30	30
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	F 240	F 245	E 250	F 260	F 255	E 240	E 230	220	220	215	210	205	195	195	[illegible]	215	[illegible]	225	[illegible]	210	F 220	[illegible]	[illegible]	F 240
	CNT	16	21	22	25	27	29	29	24	30	30	9	24	25	25	[illegible]	25	24	25	30	27	24	[illegible]	21	21
	UQ																								
	LQ																								
M(3000)F2	MED	310	320	300	300	310	325	325	340	360	350	340	330	315	315	315	315	325	340	[illegible]	345	330	335	325	330
	CNT	29	30	30	31	30	29	29	29	30	30	30	31	28	28	[illegible]	30	30	30	30	30	[illegible]	30	30	28
	UQ																								
	LQ																								
foF1	MED										380	420	440	440	430	430	420	410	360						
	CNT										1	[illegible]	5	9	8	[illegible]	[illegible]	3	1						
foE	MED								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	330	[illegible]	300	280	[illegible]	[illegible]					
	CNT								[illegible]	[illegible]	28	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]					
h'E	MED																								
	CNT																								
foEs	MED	16	16	F 16	F 16	F 14	F 14	F 14	F 14	21	27	31	33	36	34	34	32	33	18	[illegible]	18	[illegible]	18	18	17
	CNT	30	30	30	31	30	29	29	29	[illegible]	29	28	[illegible]	23	7	28	8	29	30	[illegible]	29	[illegible]	8	30	[illegible]

SWEEP 1.0 MC TO 15.0 MC IN 7 SECONDS. APRIL, 1963

TABLE 52

GODLEY HEAD (CHRISTCHURCH), N.Z. (43.6S, 172.8E) TIME 180.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	37	38	36	[illegible]	34	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	25	23	23	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
h'F2	MED									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	240						
	CNT									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3						
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	315	[illegible]	[illegible]	[illegible]	[illegible]	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	360	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	23	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
foF1	MED										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]								
	CNT										[illegible]	[illegible]	15	13	[illegible]	[illegible]	[illegible]								
foE	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
h'E	MED								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
foEs	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 1.0 MC T[illegible] IN 7 SECONDS. APRIL, 1963

TABLE 53

PORT STANLEY, FALKLAND I. (51.7S, 57.8W) TIME [illegible]

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	34	34	[illegible]	34	[illegible]	34	[illegible]	[illegible]	64	[illegible]	[illegible]	[illegible]	[illegible]	64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]									
	CNT											[illegible]	[illegible]			[illegible]									
	UQ											[illegible]	[illegible]	[illegible]	[illegible]										
	LQ											[illegible]	[illegible]	[illegible]	[illegible]										
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	240	240	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22	21	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	250	260		[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	255	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	225	240	[illegible]	[illegible]
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	330	310	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	24		
	UQ	[illegible]	[illegible]	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	340	335	[illegible]	[illegible]
	LQ	285	[illegible]	285	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	315	300		[illegible]
foF1	MED												[illegible]	[illegible]	[illegible]										
	CNT																								
foE	MED							[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
	CNT								[illegible]	[illegible]	[illegible]		[illegible]			[illegible]	[illegible]		[illegible]						
h'E	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
	CNT							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
foEs	MED	13	14	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14
	CNT	19	23	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC. APRIL, 1963

TABLE 54

INVERNESS, SCOTLAND (57.4N, 4.2W) TIME [illegible]

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	22	20	20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	51	50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	20	20	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
h'F2	MED										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
	CNT										13	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	310	300
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	11	8
	UQ																								
	LQ																								
foF1	MED										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
	CNT										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
foE	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
h'E	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
foEs	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC. MARCH, [illegible]

TABLE 55

DE BILT, NETHERLANDS (52.1N, [illegible]) TIME [illegible]

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	28	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	46	48	[illegible]	[illegible]	54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED									[illegible]	240	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
	CNT									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
	UQ																								
	LQ																								
h'F	MED	295	290	[illegible]	[illegible]	[illegible]	[illegible]	250	225	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	30	[illegible]	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	285	285	290	290	295	310	335	350	340	330	[illegible]	[illegible]	[illegible]	[illegible]	330	[illegible]	335	[illegible]	[illegible]	[illegible]	[illegible]	315	[illegible]	[illegible]
	CNT	23	25	[illegible]	24	23	20	29	30	[illegible]	31	31	[illegible]	30	30	[illegible]	[illegible]	30	30	[illegible]	30	[illegible]	[illegible]	[illegible]	25
	UQ																								
	LQ																								
foF1	MED									370	380	400	410	410	410	[illegible]	[illegible]	360							
	CNT									7	[illegible]	25	[illegible]	[illegible]	23	19	8	4							
foE	MED							190	200	[illegible]	[illegible]	280	[illegible]	[illegible]	[illegible]	280	[illegible]	230	200						
	CNT							7	30	[illegible]	[illegible]	[illegible]	28	29	[illegible]	28	[illegible]	30	11						
h'E	MED									120	[illegible]	[illegible]	110	[illegible]	110	110	[illegible]	[illegible]							
	CNT								24	23	26	25	[illegible]	[illegible]	26	26	24	[illegible]	[illegible]						
foEs	MED																								
	CNT																								

SWEEP 1.8 MC TO 18.0 MC IN 4 MINUTES. MARCH, 1963

TABLE 56

SLOUGH, ENGLAND (51.5N, 0.6W) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42	[illegible]	[illegible]	[illegible]	[illegible]	56	[illegible]	[illegible]	[illegible]	56	[illegible]	[illegible]	[illegible]	[illegible]	40	[illegible]	[illegible]
	CNT	28	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	29
	UQ	34	33	34	34	[illegible]	[illegible]	44	44	[illegible]	54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34
	LQ	28	[illegible]	28	28	[illegible]	[illegible]	[illegible]	38	[illegible]	47	[illegible]	[illegible]	[illegible]	[illegible]	55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	46	[illegible]	[illegible]	[illegible]
h'F2	MED									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	260						
	CNT									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
	UQ									[illegible]	[illegible]	310	295	[illegible]	300	[illegible]	285	[illegible]							
	LQ									245	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	235	[illegible]	[illegible]	[illegible]	[illegible]	195	[illegible]	[illegible]	[illegible]	230	[illegible]	240	240	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	25	[illegible]	31	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]
	UQ		280	285	[illegible]	[illegible]	[illegible]	[illegible]	235	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	235	[illegible]	[illegible]	245	260	240	[illegible]		
	LQ		[illegible]	[illegible]	[illegible]	255	[illegible]	225	[illegible]	210	[illegible]	190	180	[illegible]	185	185	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	220	[illegible]		
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	295	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	335	330	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	23	19	23	24	[illegible]	[illegible]	[illegible]	28	[illegible]	28	[illegible]	[illegible]	[illegible]	28	31	31	[illegible]	[illegible]	28	[illegible]	28	[illegible]	[illegible]	[illegible]
	UQ	295	[illegible]	295	300	[illegible]	[illegible]	335	360	[illegible]	360	[illegible]	[illegible]	[illegible]	345	345	[illegible]	340	340	340	[illegible]	[illegible]	330	[illegible]	300
	LQ	285	285	280	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	330	[illegible]	330	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	305	[illegible]	285
foF1	MED									[illegible]	380	410	410	[illegible]	410	410	[illegible]	380							
	CNT									[illegible]	15	[illegible]	[illegible]	18	[illegible]	17	13	3							
foE	MED	140	[illegible]	[illegible]	130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	280	[illegible]	[illegible]	295	[illegible]	[illegible]	[illegible]	[illegible]	160	160	160	[illegible]	160	160
	CNT	31	[illegible]	30	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	27	28	[illegible]	[illegible]	31	31
h'E	MED							120	[illegible]	[illegible]	110	[illegible]	[illegible]	[illegible]	[illegible]	110	[illegible]	[illegible]	[illegible]						
	CNT							[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]						
foEs	MED	14	10	10	10	[illegible]	16	15				26	27		22			[illegible]	[illegible]	17	16	16	[illegible]	[illegible]	16
	CNT	31	30	31	30	31	31	28	[illegible]	[illegible]	28	28	28	28	30	30	31	31	31	31	31	31	31	31	31

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC. MARCH, 1963

TABLE 57

PARIS, FRANCE (48.1N, 2.3E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	34	32	32	32	31	30	34	43	46	52	56	58	58	59	58	58	56	57	56	55	42	38	34	34
	CNT	16	14	14	16	16	12	19	17	17	17	28	18	18	23	23	24	23	22	18	19	11	17	14	13
	UQ																								
	LQ																								
h'F2	MED							230	230	250	255	278	258	290	280	280	270	255	245						
	CNT							1	7	10	23	26	20	20	23	22	21	13	10						
	UQ																								
	LQ																								
h'F	MED	280	275	275	275	272	242	235	225	205	200	200	200	200	215	215	225	225	230	230	225	225	230	250	270
	CNT	26	25	23	24	24	18	25	23	25	27	29	20	23	25	21	23	25	24	25	26	25	25	23	26
	UQ																								
	LQ																								
M(3000)F2	MED	275	280	282	280	290	310	330	350	348	335	325	332	318	330	322	330	325	330	320	315	315	320	300	288
	CNT	14	11	12	13	11	10	17	13	14	15	25	12	16	22	22	23	21	19	14	17	10	12	11	10
	UQ																								
	LQ																								
foF1	MED								I 250	380	400	400	420	420	420	410	400	380	280						
	CNT								[illegible]	3	18	24	15	16	21	15	13	1	1						
foE	MED								190	225	260	280	290	290	230	285	265	240	200						
	CNT	2	2	1	1	2	1	12	19	23	24	27	17	19	21	23	25	26	19	14				1	
h'E	MED								125	110	105	100	100	100	100	105	110	110	115						
	CNT	2	2	1	1	2	[illegible]	13	16	24	24	28	20	16	16	19	20	26	15	19	1			[illegible]	
foEs	MED	J 17	J 16	J 15		J 20	15	17	19		27	30	29		28	29	26	17	23	31	20	J 22	[illegible]	31	I 31
	CNT	3	5	[illegible]		1	1	3	7	16	26	30	21	22	25	25	26	22	21	11	3	5	3	5	4

SWEEP 1.4 MC TO 17.0 MC.

MARCH, 1963

TABLE 58

WAKKANAI, JAPAN (45.4N, 141.7E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	41	40	40	40	38	35	45	55	60	64	71	72	75	71	67	63	60	58	54	50	46	43	41	42
	CNT	28	27	26	26	26	28	31	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	29
	UQ	43	43	42	42	41	40	48	58	65	69	76	79	81	77	70	67	64	62	57	55	50	48	44	43
	LQ	38	34	37	38	36	33	43	54	57	63	69	69	70	67	66	61	58	57	51	48	42	39	38	38
h'F2	MED								235	250	260	265	260	270	265	260	260	250							
	CNT								1	22	29	30	30	30	30	30	27	9							
	UQ																								
	LQ																								
h'F	MED	[illegible]	240	280	260	240	250	225	230	230	220	220	210	215	220	225	225	240	235	235	245	250	260	280	285
	CNT	31	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31
	UQ																								
	LQ																								
M(3000)F2	MED	295	295	295	305	315	320	350	355	340	340	335	330	330	330	340	340	340	340	335	320	315	305	300	300
	CNT	28	27	26	26	26	28	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	29
	UQ																								
	LQ																								
foF1	MED									I 400	410	420	430	430	430	410	400	U 360							
	CNT									20	29	30	31	31	30	30	27	7							
foE	MED								225	270	290	300	300	305	300	300	280	240							
	CNT						1		22	28	28	29	29	29	29	30	28	22							
h'E	MED																								
	CNT																								
foEs	MED	F	F	F		F		23		C	30	33		C		C	C	C	30	F	F	F	F	F	F
	CNT	31	31	31	31	31	22	3	25	31	29	31	30	30	30	30	30	27	6	18	31	31	31	31	31

SWEEP 1.0 MC TO 18.0 MC IN 40 SECONDS.

MARCH, 1963

TABLE 59

AKITA, JAPAN (39.7N, 140.1E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	41	40	40	40	37	34	45	56	64	66	70	79	80	77	72	66	64	62	56	52	44	40	38	40
	CNT	21	23	25	23	25	25	27	28	28	29	31	24	28	29	9	28	28	27	28	30	25	22	20	19
	UQ	43	43	41	42	40	36	47	63	71	70	74	84	88	86	76	73	70	68	62	56	48	43	40	43
	LQ	38	39	37	37	35	30	43	54	60	62	67	74	76	72	68	64	61	57	52	46	40	36	36	37
h'F2	MED								255	245	250	280	280	270	265	270	260	255	250						
	CNT								3	28	29	33	31	31	30	29	28	24	3						
	UQ																								
	LQ																								
h'F	MED	285	285	275	260	240	245	235	240	240	220	205	205	205	210	240	225	240	240	242	235	245	255	275	290
	CNT	29	29	29	29	30	28	29	28	28	28	29	30	29	29	27	25	25	27	27	29	29	28	27	30
	UQ																								
	LQ																								
M(3000)F2	MED	300	300	300	305	320	315	350	350	360	350	330	330	330	335	340	340	340	345	340	330	320	300	290	290
	CNT	21	23	25	23	25	25	27	28	28	29	30	29	28	29	29	28	28	27	28	30	25	27	20	19
	UQ																								
	LQ																								
foF1	MED										420	430	440	450	440	I 420	400								
	CNT										4	21	24	20	18	8	4								
foE	MED							185	245	280	290	305	315	320	315	310	290	260	210						
	CNT							9	15	15	10	9	10	19	19	21	20	15	8						
h'E	MED																								
	CNT																								
foEs	MED	F	F	F	F	F	F	G	25		33	35	35			G	G	28	22	F	20	F	F	18	20
	CNT	31	31	31	30	30	29	28	27	26	29	28	28	26	30	26	26	26	25	26	30	29	29	28	29

SWEEP 1.6 MC TO 20.0 MC IN 20 SECONDS.

MARCH, 1963

TABLE 60

KOKUBUNJI, TOKYO, JAPAN (35.7N, 139.5E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	36	36	37	37	34	30	44	58	64	67	69	74	86	86	80	71	67	66	62	[illegible]	42	37	36	35
	CNT	29	29	30	29	28	28	28	28	28	30	30	30	30	30	31	31	31	31	30	30	29	30	30	29
	UQ	38	40	39	39	36	33	46	60	68	74	74	87	94	95	85	75	74	73	67	57	46	40	38	38
	LQ	34	34	34	35	31	27	40	56	62	62	65	71	82	79	73	68	63	63	54	45	36	34	34	34
h'F2	MED								255	250	260	270	285	275	265	260	260	255	250						
	CNT								1	21	26	30	30	30	30	31	30	23	6						
	UQ																								
	LQ																								
h'F	MED	300	[illegible]	270	255	220	265	[illegible]	[illegible]	225	215	215	[illegible]	225	215	215	225	230	230	225	225	230	270	300	305
	CNT	28	29	29	29	28	26	28	28	28	27	26	23	23	23	24	26	26	29	30	28	24	26	27	26
	UQ																								
	LQ																								
M(3000)F2	MED	290	290	295	305	325	305	340	34[illegible]	335	330	325	320	325	315	325	325	33[illegible]	335	340	325	320	295	285	280
	CNT	29	29	29	29	28	28	28	28	28	29	30	30	29	31	31	30	31	31	30	30	28	29	30	28
	UQ																								
	LQ																								
foF1	MED											450	450	I 460	I 450	440									
	CNT											7	10	6	6	1									
foE	MED								240	270	295	310	320	330	330	315	290	260	195						
	CNT								15	21	19	10	5	8	15	23	17	8	1						
h'E	MED																								
	CNT																								
foEs	MED	26	23	22	F	18	22	23	G	G	34	34	37	33			33	30	32	32	31	31	32	31	32
	CNT	20	10	16	20	20	8	9	15	26	23	25	24	24	24	26	23	26	9	18	18	17	14	18	11

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS.

MARCH, 1963

TABLE A1

YAMAGAWA, JAPAN TIME 135°0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	3.4	3.4	3.2	3.2	4.4	4.2	4.8	5.2	5.4	5.8	6.2	6.6	6.8	6.8	6.8	6.8	6.6	6.4	6.0	5.6	5.2	4.8	4.4	4.0
	CNT	3.2	3.2	3.0	3.0	4.2	4.0	4.6	5.0	5.2	5.6	6.0	6.4	6.6	6.6	6.6	6.6	6.4	6.2	5.8	5.4	5.0	4.6	4.2	3.8
	UQ	3.6	3.6	3.4	3.4	4.6	4.4	5.0	5.4	5.6	6.0	6.4	6.8	7.0	7.0	7.0	7.0	6.8	6.6	6.2	5.8	5.4	5.0	4.6	4.2
	LQ	3.0	3.0	2.8	2.8	4.0	3.8	4.4	4.8	5.0	5.4	5.8	6.2	6.4	6.4	6.4	6.4	6.2	6.0	5.6	5.2	4.8	4.4	4.0	3.6
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	CNT	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	UQ																								
	LQ																								
M(3000)F2	MED	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	CNT	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'F	MED																								
	CNT																								
foEs	MED	2.9		3.0	2.4																				
	CNT	1.5		1.0	.8																				

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS.

MARCH, 1963

TAIPEI (TAIWAN), CHINA TIME 120°0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	4.2	4.1	4.0	4.0	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.0	6.0	6.0	5.8	5.6	5.4	5.2	5.0	4.8	4.6	4.4
	CNT	4.0	3.9	3.8	3.8	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	5.8	5.8	5.8	5.6	5.4	5.2	5.0	4.8	4.6	4.4	4.2
	UQ	4.4	4.3	4.2	4.2	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.2	6.2	6.2	6.0	5.8	5.6	5.4	5.2	5.0	4.8	4.6
	LQ	3.8	3.7	3.6	3.6	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.6	5.6	5.6	5.4	5.2	5.0	4.8	4.6	4.4	4.2	4.0
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	CNT	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	UQ																								
	LQ																								
M(3000)F2	MED	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	CNT	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'F	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

MARCH, 1963

TABLE A3

DAKAR, SENEGAL 14.6°N, 17.4°W TIME 1°0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	4.2	4.1	4.0	4.0	4.2	4.9	5.5	5.6	6.8	7.8	8.4	9.0	10.0	8.8		9.2	9.0	8.4	7.8		6.8		6.8	6.2
	CNT	1.4	1.4	1.0	1.0	1.3	1.3	1.8	1.8	2.2	2.4	2.6	2.6	2.6	2.6		2.6	2.6	2.6	2.6		2.4		2.4	2.4
h'F2	MED									3.10	3.08	3.14	3.10	3.16	3.06	3.00	3.02	3.00	3.04						
	CNT									2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6						
h'F	MED	3.10	3.02	2.90	2.84	2.82	2.80	2.80	2.68	2.64	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.62	2.62	2.62	2.62	2.65	2.65	2.70	2.70
	CNT	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
M(3000)F2	MED	2.8	2.75	2.6	2.60	2.6	2.6	2.6	2.65	2.60	2.60	2.60	2.65	2.65	2.60		2.60	2.65	2.70	2.60		2.70		2.80	2.85
	CNT	.8	.4	.6	1.9	.8	.7	.6	.9	1.9	1.9	1.9	.3	.2	.2		.2	1.1	.9	1.1		.3		.3	.4
foF1	MED									4.50	4.60	4.60	4.60	4.60	4.60	4.50	4.50								
	CNT									.3	1.3	.1	.1	.4	.6	.6	.6								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	2.8	2.7	2.6	2.8	3.1	2.8	2.8	3.4	3.2	3.2	3.4	3.3	3.3	3.4	3.3	3.3	3.1	3.2	3.4	3.2	3.1	3.2	3.1	3.2
	CNT	1.6	1.5	1.7	2.7	1.1	1.7	2.8	2.7	2.6	2.6	2.2	2.7	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.2

SWEEP 1.2 MC TO 17.0 MC.

MARCH, 1963

TABLE A4

[illegible] FRENCH SOMALILAND 11.6°N, 43.2°E TIME 45°0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	3.8	4.1	4.4	4.2	3.4	3.2	3.4	4.2	5.4	6.2	7.2	7.2	7.8	8.2	8.4	8.8	8.2	8.4	8.2	8.0	8.5	8.4	8.2	8.0
	CNT	3.1	3.9	4.2	4.1	3.2	3.0	3.2	3.4	5.2	5.4	5.6	5.6	5.6	5.6	5.6	5.6	5.4	5.4	5.2	5.1	5.2	5.1	5.0	4.9
h'F2	MED								2.90	3.00	3.02	3.04	3.04	3.02	3.00	3.00	3.00	3.00	3.00	3.00					
	CNT								1.0	2.2	2.4	2.6	2.6	2.6	2.6	2.6	2.8	2.8	2.8	2.8					
h'F	MED	2.8	2.82	2.84	2.82	2.80	2.48	2.80	2.65	2.64	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62
	CNT	2.7	2.7	2.7	2.7	2.7	2.8	2.7	3.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
M(3000)F2	MED	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
	CNT	1.1	1.7	1.7	1.7	2.7	2.0	1.8	2.1	2.7	2.1	2.6	2.1	2.7	2.7	2.6	2.0	2.6	2.7	1.8	1.6	.7	.7	.9	.9
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.25 MC TO 20.0 MC.

MARCH, 1963

TABLE 65

KODAIKANAL, INDIA (10.2N, 77.5E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	66	64	52	38	28	17	37	64	76	78	73	72	74	78	85	91	96	96	93	88	81	82	79	73
	CNT	22	26	24	26	29	29	31	30	31	31	31	31	31	30	30	31	30	30	31	29	23	19	19	22
	UQ																								
	LQ																								
h'F2	MED									300	325	350	360	365	350	340	320	300							
	CNT								4	10	19	26	25	25	25	17	16	6	1						
	UQ																								
	LQ																								
h'F	MED	250	240	220	220	230	250	255	230	210	200	200	190	195	190	200	200	210	240	260	290	290	260	240	240
	CNT	29	30	29	29	30	30	31	30	31	31	31	31	31	30	27	30	15	26	31	29	27	24	25	27
	UQ																								
	LQ																								
M(3000)F2	MED	320	340	350	355	350	345	330	330	290	255	255	260	255	265	260	270	280	285	280	270	275	300	310	315
	CNT	22	26	24	26	25	2	31	30	31	31	31	31	31	30	30	31	30	30	31	29	23	19	19	22
	UQ																								
	LQ																								
foF1	MED									430	450	450	460	460	460	450	450								
	CNT									5	12	[illegible]	18	23	19	11	7	2							
foE	MED								240										220						
	CNT								19	1						3	3	4	5						
h'E	MED								115									110	120						
	CNT								20	4						3	4	6	7						
foEs	MED	32							S	94	108	110	112	114	108	105	88	76	64	54				30	30
	CNT	6	3		2	1	5		29	31	31	31	31	31	31	30	31	30	29	6	1	4	4	5	5

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

MARCH, 1963

TABLE 66

SINGAPORE, BRITISH MALAYA (1.3N, 103.8E) TIME 105.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	70	47	40	35	29	26	30	63	75	84	92	93	87	89	91	96	95	95	98	96	95	96	94	90
	CNT	26	28	27	28	30	30	31	29	31	31	31	31	31	30	30	31	31	29	31	31	29	28	26	25
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	360	330	325	325	335	345	325	350	320	285	245	210	210	230	250	265	270	270	275	275	280	305	325	345
	CNT	24	28	26	27	27	29	31	27	30	31	31	31	31	30	30	31	31	29	31	31	29	28	25	23
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED		100	85	100	90	90	105	220	275	310	335	350	355	350	340	320	285	240	170	115				
	CNT		4	3	3	1	1	8	18	22	27	31	24	29	27	25	21	18	17	10	1				
h'E	MED																								
	CNT																								
foEs	MED	F 12	F 10	F 10	12	13	F 11		[illegible]	[illegible]	31	27					32	31	26	25	25	23	20	23	F 13
	CNT	31	31	31	31	31	31	31	29	31	31	31	31	31	30	30	31	31	29	31	31	30	31	31	31

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC.

MARCH, 1963

TABLE 67

TAHITI, SOCIETY IS. (17.7S, 149.3W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	55	65	53	35	31	26	37	[illegible]	84	88	98	111	120	132	146	[illegible]	128	123	104	77	72	67	64	63
	CNT	23	26	25	27	25	23	31	30	29	27	24	22	19	19	22	25	21	22	21	21	24	[illegible]	[illegible]	24
	UQ																								
	LQ																								
h'F2	MED							270	265	260	272	290	282	280	285	270	280	275	260	[illegible]					
	CNT							1	27	28	26	28	30	30	29	29	30	29	24	[illegible]					
	UQ																								
	LQ																								
h'F	MED	250	240	225	235	295	298	260	232	220	[illegible]	[illegible]	[illegible]	196	195	194	[illegible]	[illegible]	240	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	280
	CNT	29	29	29	26	28	29	29	30	26	[illegible]	5	7	6	6	4	3	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30
	UQ																								
	LQ																								
M(3000)F2	MED	308	330	335	[illegible]	290	290	325	340	340	325	320	[illegible]	320	310	310	315	322	332	325	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	29	25	23	26	23	23	[illegible]	28	29	[illegible]	[illegible]	[illegible]	[illegible]	16	18	[illegible]	16	8	18	[illegible]	[illegible]	[illegible]	20	[illegible]
	UQ																								
	LQ																								
foF1	MED										450	470	470	480	480	470	[illegible]								
	CNT										1	[illegible]	7	6	6	6	3								
foE	MED								[illegible]	[illegible]	[illegible]	[illegible]					318	285	240						
	CNT			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1					1	[illegible]	[illegible]	[illegible]	[illegible]	1	4		
h'E	MED								115	[illegible]	[illegible]	[illegible]	105	105	105	105	105	110	115						
	CNT			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	16	[illegible]	[illegible]	[illegible]	21	21	[illegible]		[illegible]	[illegible]		
foEs	MED	18	24	17	23	20	22	24	26	31	36	[illegible]	36	42	[illegible]	[illegible]	[illegible]	42	[illegible]	38	[illegible]	31	31	31	28
	CNT	27	29	24	29	28	26	31	31	28	24	25	18	19	14	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]

SWEEP 1.2 MC TO 17.0 MC.

MARCH, 1963

TABLE 68

TANANARIVE, MALAGASY REPUBLIC (18.8S, 47.5E) TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	24	[illegible]	[illegible]	24	[illegible]	54	63	[illegible]	75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	71	57	47	41	37	36
	CNT	[illegible]	31	[illegible]	31	[illegible]	[illegible]	31	[illegible]	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	31	31	29	29	[illegible]	30
	UQ																								
	LQ																								
h'F2	MED								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	268	245	248					
	CNT								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	4					
	UQ																								
	LQ																								
h'F	MED	245	[illegible]	218	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	26	[illegible]	24	26	[illegible]	[illegible]	[illegible]	23	24	27	30	[illegible]	[illegible]	1	10	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]	28	[illegible]	28
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	345	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	328	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	24	24	24	25
	UQ																								
	LQ																								
foF1	MED										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]								
	CNT										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]								
foE	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	285	[illegible]						
	CNT	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'E	MED								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
	CNT	2	[illegible]	2	[illegible]	23	31	31	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
foEs	MED	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]		26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	31	31	31	31	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31

SWEEP [illegible] MC TO [illegible] MC.

MARCH, 1963

TABLE 6[illegible]

RAROTONGA, COOK IS. (21.2S, 159.8W) TIME 165.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	37	31	29	28	47	78	78	79	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	28	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	31	31	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
h'F2	MED								[illegible]	260	270	[illegible]	270	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
	CNT								1	29	31	[illegible]	31	31	31	[illegible]	31	[illegible]	14						
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	30
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27
	UQ																								
	LQ																								
foF1	MED									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	380							
	CNT									[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	4							
foE	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
	CNT							[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
h'E	MED							[illegible]	[illegible]	100	100	[illegible]	[illegible]	[illegible]	[illegible]	100	100	[illegible]	100	[illegible]					
	CNT							24	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]					
foEs	MED	28	J 30	J 25	J [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	43	[illegible]	[illegible]	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	J 31	J 40
	CNT	25	19	17	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	30	26	24

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. MARCH, 1963

TABLE [illegible]

JOHANNESBURG, UNION OF S. AFRICA (26.1S, [illegible]) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33	[illegible]	[illegible]	68	74	[illegible]	78	78	78	77	78	77	74	60	44	37	37	37
	CNT	31	31	[illegible]	31	31	[illegible]	[illegible]	[illegible]	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	31	31	31	31	31	31	31
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	28	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	320	[illegible]	[illegible]	[illegible]	[illegible]	340	[illegible]	[illegible]	315	[illegible]	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	335	345	325	[illegible]	[illegible]	300
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	31	31	31	31	[illegible]	31	31	31
	UQ																								
	LQ									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
foF1	MED																								
	CNT																								
foE	MED							[illegible]	[illegible]	[illegible]	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	180	F 110				
	CNT							[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21	5	3				
h'E	MED																								
	CNT																								
foEs	MED	17	17	J 20	16	18	15	16	[illegible]	[illegible]	[illegible]	[illegible]	37	[illegible]	37	[illegible]	35	[illegible]	20	[illegible]	18	16	17	16	14
	CNT	30	31	31	30	30	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	31	31	[illegible]	[illegible]	[illegible]	[illegible]	31	31	29	30

SWEEP 1.0 MC TO 15.0 MC IN 7 SECONDS. MARCH, 19[illegible]

TABLE 71

TUCUMAN, ARGENTINA (26.9S, 65.4W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	69	[illegible]	44	[illegible]	[illegible]	[illegible]	61	[illegible]	75	82	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	25	[illegible]	[illegible]	24	25	18	20	[illegible]	[illegible]	[illegible]	[illegible]	29	24	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	[illegible]	285	265	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	210	[illegible]	[illegible]	[illegible]	185	[illegible]	[illegible]	[illegible]	[illegible]	220	[illegible]	[illegible]	280
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]	17	[illegible]	[illegible]	[illegible]	30	31	31	28
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	295	[illegible]	[illegible]	[illegible]	340	340	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	19	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	14	[illegible]	[illegible]	14	[illegible]	21	[illegible]	[illegible]	14	[illegible]	18	20
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. MARCH, 1963

TABLE 72

CAPETOWN, UNION OF S. AFRICA (34.1S, 18.3E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	35	[illegible]	34	[illegible]	31	[illegible]	54	61	63	68	[illegible]	79	79	76	74	[illegible]	[illegible]	[illegible]	[illegible]	38	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	29	30	30	29	29	29	29	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	29
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	225	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	230	[illegible]	[illegible]	F 230	F 245	F 250
	CNT	16	[illegible]	17	[illegible]	[illegible]	[illegible]	24	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	27	27	31	26	[illegible]	19	17
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	330	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	31	31	31	[illegible]	[illegible]
	UQ																								
	LQ										[illegible]	[illegible]	440	440	[illegible]	450	[illegible]	[illegible]	400						
foF1	MED																								
	CNT																								
foE	MED								[illegible]	[illegible]	270	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	280	[illegible]	F 170				
	CNT								[illegible]	29	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	14	11				
h'E	MED																								
	CNT																								
foEs	MED	[illegible]	[illegible]	E 16	[illegible]	F 14	F 15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	36	[illegible]	[illegible]	[illegible]	[illegible]	21	17	F 17	[illegible]	F 17
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	31	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	31	31	31	30	30

SWEEP 1.0 MC TO 1[illegible] MC IN 7 SECONDS. MARCH, 1963

TABLE 73

PORT STANLEY (FALKLAND IS.) (51.7S, 57.8W) TIME -3.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	9	20	21	22	23
foF2	MED	44	43	43	42	40	38	47	49	54	59	66	70	76	76	68	60	56	54	54	54	54	54	47	45
	CNT	21	23	26	27	25	26	27	27	29	29	30	27	27	29	28	25	26	24	24	24	23	22	22	21
	UQ	48	47	45	44	44	42	44	53	58	62	72	80	82	80	73	61	59	58	57	58	60	57	53	50
	LQ	35	34	34	34	34	34	44	48	51	54	62	66	71	68	64	57	52	52	52	49	49	48	42	39
h'F2	MED									320	270	280	265	265	260	255	255	260	260						
	CNT									1	6	18	26	25	26	23	15	6	1						
	UQ										320	290	280	280	275	260	260	260							
	LQ										260	260	260	260	250	250	245	250							
h'F	MED	295	300	300	295	275	250	220	210	225	210	205	215	220	210	220	220	230	240	240	250	255	255	260	280
	CNT	26	28	27	27	27	27	27	24	26	19	13	13	11	16	21	18	20	23	23	22	22	22	24	26
	UQ	300	310	320	300	290	275	255	235	230	240	240	220	235	235	235	235	240	260	260	265	260	260	270	300
	LQ	280	290	280	270	255	230	215	210	220	215	210	210	210	210	200	205	218	235	235	235	250	250	240	245
M(3000)F2	MED	295	290	290	295	300	315	360	365	350	340	330	335	335	345	350	355	355	365	360	320	310	315	305	295
	CNT	19	21	21	23	24	23	26	26	28	28	28	25	27	29	28	27	27	29	29	26	25	25	31	30
	UQ	300	300	295	300	310	340	370	375	360	345	345	350	350	350	360	360	360	380	365	335	330	335	330	300
	LQ	285	280	280	290	295	300	345	340	335	335	325	325	325	335	340	345	345	345	335	315	305	305	290	280
foF1	MED										420	430	430	430	430	430	420	415							
	CNT										2	7	13	16	13	13	9	4							
foE	MED							160	200	260	280	300	315	315	290	260	265	240	200	190					
	CNT							16	16	9	5	4	3	6	4	10	2	11	11	1					
h'E	MED							160	120	115	110	110	120	120	120	120	120	110	110	110					
	CNT							15	27	29	28	24	18	22	26	21	6	7	7	6					
foEs	MED									30	38	40	40	41	38	31	32	28	29	28	28	24	26	26	24
	CNT									29	29	29	28	29	28	28	26	28	29	28	27	24	25	25	22

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC.

MARCH. 1963

TABLE 74

AMEMIYA (I.) (32.6S, 149.2E) TIME 10.0E

HOUR		00	0	02	03	04	05	06	07	08	09	10	1	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	28	24	21	24	27	.	34	42	48	51	56	56	59	60	54	58	57	57	58	59	54	42	35	31
	CNT	27	28	27	1	4	11	30	29	31	31	31	1	31	31	31	31	31	31	30	29	29	30	30	30
	UQ																								
	LQ																								
h'F2	MED								255	270	280	275	260	270	280	280	280	265	260	255					
	CNT								4	17	31	41	31	33	31	31	28	19	9	1					
	UQ																								
	LQ																								
h'F	MED	270	280	290	285	275	245	235	205	210	210	210	190	190	205	215	215	230	235	240	230	230	230	260	230
	CNT	8	9	9	9	7	11	24	24	31	31	31	31	31	41	41	31	31	31	29	27	27	19	10	4
	UQ																								
	LQ																								
M(3000)F2	MED	290	290	290	290	290	290	335	335	335	330	330	330	320	320	320	315	320	315	310	310	305	300	300	290
	CNT	27	27	26	27	40	40	34	29	31	31	31	31	31	34	41	31	32	31	30	29	29	30	30	30
	UQ																								
	LQ																								
foF1	MED									440	430	430	430	430	430	430	430	430	410	410	400	330			
	CNT									7	29	31	31	33	39	39	34	19	9						
foE	MED	180	160	160	170	130	120	160	210	250	270	290	300	300	330	290	275	260	200	180	180	160	180	210	220
	CNT	3	6	4	4	2	4	27	28	28	28	29	3	31	41	41	4	3	13	12	2	3	2	4	9
h'E	MED									125	119	115	113	110	105	105	105	110	110	121	130				
	CNT									1	3	11	22	25	28	28	4	27	19	8	7	1	111	105	
foEs	MED	21	19	21	19	12	14	16	22	25	28	30	31	30	33	29	27	24	20	18	16	14	14	14	13
	CNT	30	27	29	28	29	29	30	30	31	34	31	31	31	31	31	31	31	31	30	28	27	29	32	28

SWEEP 1.0 MC TO 25.0 MC IN 15 SECONDS

MARCH. 1963

TABLE 75

DE BILT. NETHERLANDS (52.1N. 5.2E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	28	28	29	30	24	24	26	30	52	57	58	54	58	58	58	54	54	50	48	42	30	27	26	26
	CNT	27	28	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	24	24	28	1	28	27
	UQ	32	32	32	32	29	29	29	44	56	59	60	60	60	60	63	58	58	54	48	48	37	1	1	32
	LQ	23	24	24	24	20	20	23	33	50	52	54	56	52	56	56	54	54	46	38	31	26	24	1	22
h'F2	MED									220	230	230	230	240	235	235	235								
	CNT									9	23	25	26	24	23	23	4								
	UQ																								
	LQ																								
h'F	MED	300	280	285	290	285	290	310	230	220	210	211	210	210	210	220	220	220	220	230	230	240	230	230	280
	CNT	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28	28
	UQ																								
	LQ																								
M(3000)F2	MED	300	295	300	295	300	320	320	335	355	355	350	350	345	345	345	355	345	335	330	330	325	320	320	300
	CNT	21	23	24	25	20	17	19	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28	26	26
	UQ																								
	LQ																								
foF1	MED									400	380	370	360	380	370	360	360								
	CNT									4	30	20	26	33	17	9	1								
foE	MED									300	290	280	280	270	270	260	250	250							
	CNT								28	27	27	26	27	28	28	28	27	24							
h'E	MED									120	110	110	116	104	94	110	120								
	CNT								27	29	29	33	24	33	37	34	30	24							
foEs	MED																								
	CNT																								

SWEEP 1.8 MC TO 18.0 MC IN 4 MINUTES.

FEBRUARY. 1963

TABLE 76

WARSAW (MIEDZESYN). POLAND (52.2N. 21.2E) TIME 1.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	30	30	30	3	24	24	24	38	52	56	60	.	58	58	58	58	54	48	42	4	31	30	30	28
	CNT	26	27	27	26	27	3	12	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	26
	UQ	34	32	33	34	28	28	28	44	56	60	64	64	60	60	60	60	58	54	48	44	32	32	32	30
	LQ	25	24	26	26	20	21	22	34	48	52	56	56	52	52	52	52	52	46	38	34	26	26	26	26
h'F2	MED									245	245	260	260	270	265	265	265								
	CNT									1	5	16	27	27	28	27	27								
	UQ													275	275	275	275								
	LQ													260	260	260	260								
h'F	MED	270	280	290	270	230	230	240	260	230	240	230	240	220	240	235	240	230	230	220	225	230	230	260	275
	CNT	25	25	27	26	6	13	16	27	27	28	27	28	27	28	27	27	27	26	26	24	24	24	24	24
	UQ	290	290	290	280	280	290	270	270	240	240	235	230	235	240	240	240	240	240	240	240	240	240	260	300
	LQ	270	260	255	260	260	260	250	250	225	220	215	210	215	220	220	220	220	220	220	220	220	220	240	260
M(3000)F2	MED	330	295	300	295	330	330	320	330	345	345	350	345	345	340	340	345	340	330	330	330	330	330	330	330
	CNT	17	19	21	19	21	24	24	21	25	28	29	28	29	28	28	28	28	28	28	28	28	28	28	28
	UQ	330	300	305	305	335	330	330	330	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360
	LQ	290	285	285	290	295	310	305	320	340	340	335	340	340	335	335	335	340	340	335	335	335	340	340	330
foF1	MED									410	420	430	430	440	440										
	CNT									1	3	7	9	6	4	4									
foE	MED									360	330	320	320	320	320	320	320	320	320	320	320	320	320	320	320
	CNT									16	20	24	4	24	4	4	4	24	4	4	4	4	4	4	4
h'E	MED									125	123	121	119	121	123	121	121	121	121	121	121	121	121	121	121
	CNT									12	19	21	22	22	18	19	18	22	18	19	18	22	18	19	18
foEs	MED	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
	CNT	27	29	28	29	28	27	26	27	27	28	29	28	27	26	27	27	27	28	29	27	27	26	26	28

SWEEP 1.0 MC TO 18.0 MC IN 20 SECONDS.

FEBRUARY. 1963

TABLE [illegible]

[illegible]H, ENGLAND (51.5N, [illegible]W) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	28	28	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	22	[illegible]	26	24	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	34	35	33	34	31	[illegible]	24	35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	58	[illegible]	58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	23	23	[illegible]	24	20	18	19	26	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]									
	CNT										8	17	19	[illegible]	[illegible]	[illegible]									
	UQ										[illegible]	250	[illegible]	[illegible]	[illegible]	[illegible]									
	LQ										[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]									
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	220	[illegible]	235	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	240	245	260
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	24	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12
	UQ	275	[illegible]	[illegible]	[illegible]	275	[illegible]		24	[illegible]	[illegible]	225	213	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
	LQ	24	250	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	210	[illegible]	[illegible]	[illegible]			
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	16	18	18	[illegible]	17	[illegible]	16	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	305	300	310	[illegible]	305	310	325	335	380	380	375	[illegible]	375	365	370	365	[illegible]	365	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	310
	LQ	290	285	285	285	[illegible]	[illegible]	295	[illegible]	[illegible]	365	[illegible]	[illegible]	[illegible]	[illegible]	345	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	305	300	300
foF1	MED										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]									
	CNT										[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]									
foE	MED	140	100	100	[illegible]	105	160	[illegible]	160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	160
	CNT	24	24	26	27	26	25	[illegible]	26	[illegible]	[illegible]	23	24	[illegible]	[illegible]	27	24	[illegible]	14	27	28	28	[illegible]	28	28
h'E	MED								115	115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
	CNT								1	11	26	[illegible]	25	[illegible]	[illegible]	28	25	[illegible]	[illegible]						
foEs	MED	15	[illegible]	10	11	11	[illegible]	16	17	[illegible]							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	24	24	27	27	[illegible]	[illegible]	[illegible]	15	22	27	[illegible]	25	25	[illegible]	27	27	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC. FEBRUARY, 1963

TABLE [illegible]

PARIS, FRANCE (48.1N, [illegible]) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	33	[illegible]	36	36	34	[illegible]	24	[illegible]	[illegible]	57	58	[illegible]	[illegible]	58	[illegible]	57	[illegible]	[illegible]	44	48	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	26	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16
	UQ																								
	LQ																								
h'F2	MED									225	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
	CNT									[illegible]	23	[illegible]	17	23	[illegible]	[illegible]	[illegible]	[illegible]							
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	262	248	240	225	[illegible]	230	[illegible]	205	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	250	[illegible]
	CNT	[illegible]	22	[illegible]	21	[illegible]	18	17	22	22	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	21	18	20
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	295	[illegible]	[illegible]	[illegible]	318	[illegible]	358	[illegible]	[illegible]	[illegible]	[illegible]	362	355	[illegible]	[illegible]	360	350	[illegible]	348	[illegible]	[illegible]	305	288
	CNT	9	[illegible]	6	4	[illegible]	6	8	[illegible]	1	17	[illegible]	[illegible]	[illegible]	21	[illegible]	[illegible]	15	13	[illegible]	8	10	11	8	8
	UQ																								
	LQ																								
foF1	MED									[illegible]	[illegible]	380	380	[illegible]	380	330									
	CNT									1	6	10	[illegible]	[illegible]	[illegible]	[illegible]									
foE	MED									[illegible]	240	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	190						
	CNT	2				1	1	2	[illegible]	16	26	25	[illegible]	[illegible]	[illegible]	[illegible]	26	21	4	1					
h'E	MED									115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	115							
	CNT	[illegible]				[illegible]	[illegible]	2	[illegible]	11	24	[illegible]	[illegible]	[illegible]	4	[illegible]	24	[illegible]	15	[illegible]					
foEs	MED	[illegible]	16	14		19	[illegible]	20	21	[illegible]			28	25			22	24	[illegible]	[illegible]	[illegible]	31	[illegible]	20	[illegible]
	CNT	1	[illegible]	4	3	3	2	3	6	[illegible]	26	26	[illegible]	[illegible]	26	27	26	21	12	[illegible]	4	1	[illegible]	[illegible]	2

SWEEP 1.4 MC TO 17.0 MC. FEBRUARY, 1963

TABLE 79

DAKAR, SENEGAL (14.7N, 17.4W) TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	52	49	65	55	38	41	19	50	66	78	88	83	88	88	99	100	120	120	78	85	73	62	59	57
	CNT	7	4	7	7	10	9	9	24	25	10	3	7	7	4	8	7	7	7	5	4	7	7	8	9
	UQ																								
	LQ																								
h'F2	MED								261	265	285	315	308	315	315	300	288	278	260	245					
	CNT								3	11	20	26	26	26	25	26	26	26	23	2					
	UQ																								
	LQ																								
h'F	MED	275	260	240	220	215	258	190	245	230	212	210	190	192	195	205	202	212	230	240	250	245	240	275	292
	CNT	25	27	27	26	24	17	11	28	22	22	25	24	24	23	25	22	14	15	25	27	22	18	13	26
	UQ																								
	LQ																								
M(3000)F2	MED	292	325	330	340	350	325	345	340	330	322	310	300	322	335	[illegible]	322	312	328	325	318	305	305	300	280
	CNT	6	4	6	7	8	5	1	21	25	10	8	7	6	1	8	6	5	6	5	8	5	5	7	9
	UQ																								
	LQ																								
foF1	MED										440	450	450	460	450	450	450								
	CNT										2	17	17	18	[illegible]	[illegible]	[illegible]								
foE	MED								195	260	300	310	330	340	340	330	320	280	240						
	CNT	3	3	7	7	4	8	7	14	9	7	8	11	14	11	11	5	6	7	6	8	4	5	3	2
h'E	MED								130	110	110	110	110	105	108	110	110	110	115						
	CNT	3	3	7	7	9	8	8	15	23	21	17	8	5	6	11	18	19	24	12	[illegible]	4	5	3	[illegible]
foEs	MED	20	17	14	15	18	18	18	21	28	39	38	46	40	41	38	38	[illegible]	34	31	[illegible]	21	[illegible]	24	[illegible]
	CNT	16	19	18	17	13	16	24	21	26	26	22	23	22	24	23	24	26	27	24	23	16	21	24	19

SWEEP 1.2 MC TO 17.0 MC. FEBRUARY, 1963

TABLE 80

DJIBOUTI, FRENCH SOMALILAND (11.6N, 43.2E) TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	46	42	43	31	23	16	16	53	66	75	82	[illegible]	75	80	84	91	94	92	91	78	67	66	56	51
	CNT	19	22	24	22	23	24	27	21	14	17	21	[illegible]	24	14	[illegible]	[illegible]	17	13	7	16	10	5	8	13
	UQ																								
	LQ																								
h'F2	MED								245	285	[illegible]	340	360	365	360	350	340	308	290	260					
	CNT								3	18	22	24	[illegible]	28	27	27	27	28	20	1					
	UQ																								
	LQ																								
h'F	MED	259	259	240	225	236	274		240	225	212	205	200	198	200	200	205	215	225	251	260	264	260	245	255
	CNT	26	26	25	23	24	22	21	27	18	24	25	22	24	27	25	27	27	25	26	27	24	21	21	23
	UQ																								
	LQ																								
M(3000)F2	MED	310	325	345	350	360	341	298	[illegible]	315	290	268	265	[illegible]	270	275	275	290	290	288	270	270	278	302	315
	CNT	19	22	23	21	20	13	10	21	13	16	20	19	23	23	22	20	17	11	6	13	9	4	6	12
	UQ																								
	LQ																								
foF1	MED										430	440	450	460	450	440	430								
	CNT										[illegible]	9	9	14	14	17	4								
foE	MED								190	250	295	320	335	355	345	325	302	278	235						
	CNT		1	2	1	2	2		11	15	7	6	5	6	5	7	8	6	5	5					
h'E	MED								125	[illegible]	112	100	105	100	110	105	105	110	112						
	CNT			2	1	2	[illegible]		19	14	8	3	1	3	3	8	7	11	8	14					
foEs	MED	26	25	15					25	32	39	43	58	50	44	38	38	38	36	30	29	30	27	28	27
	CNT	18	14	16	22	23	26	21	22	27	25	26	25	27	28	25	28	26	27	26	18	17	21	14	18

SWEEP 1.25 MC TO 20.0 MC. FEBRUARY, 1963

TABLE 81

TAHITI, SOCIETY IS. (17.7S, 149.3W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	73	70	46	34	33	31	38	62	80	85	92	102	104	107	112	109	103	97	93	85	77	76	72	72
	CNT	15	15	15	18	18	13	24	27	27	25	24	20	16	14	16	20	23	24	23	24	25	18	16	15
	UQ																								
	LQ																								
h'F2	MED								280	290	295	318	325	325	315	295	300	295	290	280					
	CNT								9	25	22	26	24	28	27	27	28	26	27	13					
	UQ																								
	LQ																								
h'F	MED	245	220	205	265	315	300	250	235	230	210	200	195	200	195	200	208	220	222	250	260	275	282	288	268
	CNT	24	24	20	17	21	20	24	20	11	8	6	5	5	4	7	10	8	10	18	26	26	26	27	26
	UQ																								
	LQ																								
M(3000)F2	MED	330	352	360	300	292	295	320	330	320	315	302	300	305	298	305	308	310	305	305	300	290	292	292	300
	CNT	14	14	13	16	16	12	21	27	26	23	24	18	13	8	11	16	21	22	23	23	22	16	16	13
	UQ																								
	LQ																								
foF1	MED									440	460	480	470	480	480	470	460	440	390						
	CNT									3	6	7	7	13	7	12	11	6	1						
foE	MED								240	290	305			380		380	330	300	270	170					
	CNT	1			7	5	7	9	19	17	12			1		1	4	23	15	6	4	2		2	2
h'E	MED								105	105	105	100	100	100	100	105	110	110	110						
	CNT	1			7	5	7	22	13	12	10	13	12	12	13	14	16	20	18	18	4	2		2	2
foEs	MED	31	31	28	24	25	28	28	30	37	44	46	50	47	50	42	42	40	38	36	33	31	36	32	32
	CNT	27	26	25	24	25	25	27	28	25	25	23	13	17	17	18	[illegible]	18	28	26	27	27	17	28	26

SWEEP 1.2 MC TO 17.0 MC.

FEBRUARY, 1963

TABLE 82

TANANARIVE, MALAGASY REPUBLIC (18.8S, 47.5E) TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	46	45	34	31	26	25	40	52	58	62	65	70	76	80	77	78	76	77	79	68	62	53	49	48
	CNT	22	24	26	24	24	26	24	17	22	23	24	21	23	22	20	24	26	26	[illegible]	25	24	22	23	24
	UQ																								
	LQ																								
h'F2	MED							220	268	300	315	330	335	330	325	320	305	300	295	252					
	CNT							1	10	20	22	23	24	24	23	25	25	22	21	14					
	UQ																								
	LQ																								
h'F	MED	250	240	222	240	250	255	240	230	232	220	205	205	200	212	210	225	232	235	250	240	240	250	258	258
	CNT	27	25	22	21	22	23	24	17	24	20	21	19	16	18	18	19	14	11	14	23	25	27	27	28
	UQ																								
	LQ																								
M(3000)F2	MED	310	325	332	320	310	310	345	340	328	315	300	300	300	300	302	305	305	305	315	310	310	305	295	298
	CNT	21	22	22	22	24	24	24	15	20	22	23	19	22	22	20	23	25	25	24	24	22	17	21	22
	UQ																								
	LQ																								
foF1	MED									420	440	450	460	460	460	440	430	420							
	CNT									2	15	16	10	4	9	14	17	4							
foE	MED							180	230	285	[illegible]	330	348	[illegible]	[illegible]	340	325	300	260	180					
	CNT	3	2	2	11	18	23	18	18	23	[illegible]	16	14	8	13	17	14	24	23	8	9				3
h'E	MED								118	115	110	106	105	105	110	110	115	115	120	125					
	CNT	3	2	[illegible]	11	18	23	21	16	19	19	18	7	7	9	16	19	18	15	3	9				3
foEs	MED	16	14	13	12	11	12		27	34	36	38	37	45	34	39	38	35	33	27	24	24	20	18	18
	CNT	25	26	26	25	25	25	15	18	18	25	21	25	24	24	23	27	26	27	27	28	27	17	25	26

SWEEP 1.25 MC TO 20.0 MC.

FEBRUARY, 1963

TABLE 83

JOHANNESBURG, UNION OF S. AFRICA (26.1S, 28.1E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	38	37	36	32	30	26	37	48	54	59	67	71	74	72	74	76	74	72	69	68	58	45	40	38
	CNT	26	27	27	27	26	27	27	27	27	27	27	27	27	28	28	28	28	27	27	28	28	27	27	27
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	255	245	230	220	235	240	240	230	220	210	205	195	185	190	195	210	[illegible]	220	230	230	225	240	250	250
	CNT	20	22	22	22	19	22	27	23	20	15	15	17	17	21	15	17	15	15	16	24	27	23	21	[illegible]
	UQ																								
	LQ																								
M(3000)F2	MED	295	310	315	310	310	310	330	330	315	320	290	295	295	290	290	295	300	310	315	325	[illegible]	310	300	295
	CNT	25	26	26	25	25	25	26	25	23	25	27	27	27	28	28	28	28	26	26	24	[illegible]	26	26	25
	UQ																								
	LQ																								
foF1	MED									420	430	450	460	460	460	450	440	420	390						
	CNT									13	4	25	25	[illegible]	25	26	3	22	1						
foE	MED							140	220	280	300	320	340	350	350	340	330	300	270	[illegible]	[illegible]				
	CNT							15	24	22	20	18	19	17	21	23	21	19	19	9	2				
h'E	MED																								
	CNT																								
foEs	MED	20	16	18	19	17	12	20	26	41	36	39	38	39	38	38	35	34	31	26	22	18	18	18	[illegible]
	CNT	26	26	26	25	26	26	26	27	24	25	23	24	24	26	17	27	26	[illegible]	26	27	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 1.0 MC TO 15.0 MC IN 1 MINUTE 30 SECONDS.

FEBRUARY, 1963

TABLE 84*

TUCUMAN, ARGENTINA (26.9S, 65.4W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	57	57	[illegible]	47	38	29	36	51	57	[illegible]	[illegible]	85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	81	[illegible]	[illegible]
	CNT	[illegible]	12	11	11	[illegible]	7	13	17	18	17	16	14	17	14	13	[illegible]	[illegible]	[illegible]	8	[illegible]	17	[illegible]	16	11
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	295	275	340	255	265	265	240	230	[illegible]	200	200	200	195	185	185	185	185	[illegible]	[illegible]	245	245	[illegible]	295	315
	CNT	18	17	18	18	15	12	17	17	16	13	13	10	11	12	11	10	8	11	[illegible]	16	7	18	18	18
	UQ																								
	LQ																								
M(3000)F2	MED	295	315	[illegible]	335	[illegible]	[illegible]	355	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	275	285	[illegible]	300	[illegible]	[illegible]	315	[illegible]	[illegible]	[illegible]	290
	CNT	[illegible]	12	10	[illegible]	[illegible]	7	13	17	18	17	17	14	14	[illegible]	8	[illegible]	[illegible]	[illegible]	8	[illegible]	9	[illegible]	15	9
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

*There were 10 days of "C" time, February 18 through 27.

FEBRUARY, 1963

TABLE 85

CAPETOWN, UNION OF S. AFRICA (34.1S, 18.3E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	28	34	35	35	34	32	32	43	50	54	58	62	68	70	72	71	70	69	64	61	58	60	58	54
	CNT	28	28	28	28	28	28	28	28	28	28	28	28	28	27	27	27	27	27	27	28	27	27	28	28
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	F 260	F 235	F 210	F 240	F 240	F 235	240	235	230	220	215	200	200	195	195	200	205	10	225	230	225	F 220	G 230	F 240
	CNT	9	6	8	9	9	7	21	27	25	22	19	17	16	19	22	21	22	23	21	20	24	19	10	8
	UQ																								
	LQ																								
M(3000)F2	MED	300	300	300	305	310	310	315	340	330	310	300	295	290	290	290	295	300	310	320	330	330	325	315	310
	CNT	28	27	27	28	28	28	28	28	28	28	28	28	27	27	27	27	27	27	27	27	27	27	27	28
	UQ																								
	LQ																								
foF1	MED									380	410	430	440	440	450	440	440	420	410	360	300				
	CNT									3	23	28	27	27	27	26	26	25	21	10	1				
foE	MED							G 330	200	240	280	310	320	330	340	340	330	310	290	250	190	F 160			
	CNT							19	24	26	25	25	27	20	6	10	16	18	18	17	8	13			
h'E	MED																								
	CNT																								
foEs	MED	F 16	F 16	17	I 18	14	14	F 14	21	28	31	35	38	19	38	36	35	34	30	27	21	H 16	F 17	F 18	F 18
	CNT	28	28	28	28	28	28	28	28	28	27	27	26	28	27	27	25	26	23	27	27	26	27	26	28

SWEEP 1.0 MC TO 15.0 MC IN 1 MINUTE 30 SECONDS. FEBRUARY, 1963

TABLE 86

PORT STANLEY (FALKLAND S.) (51.7S, 57.8W) TIME 4.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	54	51	49	46	46	48	48	50	55	59	62	67	73	72	69	68	68	66	64	64	68	68	66	66
	CNT	20	17	15	18	16	23	24	27	24	25	26	24	26	7	14	19	17	27	27	25	27	20	21	14
	UQ	55	54	51	49	49	52	54	55	58	62	66	70	79	80	74	71	70	66	64	64	69	69	66	60
	LQ	52	48	44	43	40	43	44	47	52	54	58	65	69	66	68	66	64	62	62	48	63	64	63	63
h'F2	MED							300	265	325	310	320	305	305	280	290	290	280	280	270					
	CNT							4	4	13	14	31	23	28	25	23	24	23	16	8					
	UQ								305	330	315	320	330	320	295	300	315	295	290	280					
	LQ								240	285	290	290	290	280	270	280	280	260	260	260					
h'F	MED	290	290	290	280	280	250	230	230	230	225	220	215	215	210	205	210	225	230	240	250	265	275	285	300
	CNT	25	25	22	24	26	25	26	19	13	3	3	4	4	6	11	11	12	16	14	18	24	20	21	24
	UQ	300	300	300	290	290	260	250	245	250					210	210	215	245	235	260	260	280	290	305	310
	LQ	270	275	275	270	250	240	225	225	230					200	200	205	225	220	230	250	260	260	270	280
M(3000)F2	MED	290	295	295	290	300	320	330	340	330	320	310	310	315	335	325	320	340	330	335	320	300	290	295	295
	CNT	11	9	9	11	7	20	24	25	22	23	23	22	25	27	26	26	26	26	27	26	26	18	14	6
	UQ	300	300	300	295	305	340	350	360	330	330	325	320	335	345	335	340	345	340	350	330	320	300	300	300
	LQ	290	290	285	285	295	295	330	320	300	310	295	290	305	310	320	310	325	320	325	310	295	290	290	290
foF1	MED								380	420	430	440	440	440	440	440	420	400	400	370					
	CNT								4	9	8	7	13	17	12	17	19	15	5	1					
foE	MED							330	270	290	320		G 340	330	335	325	300	290	255	220	150				
	CNT							1	1	6	1		1	1	3	2	3	5	10	8	2				
h'E	MED							165	180	120	115	110	110	110	110	110	110	110	115	115	110				
	CNT							1	11	24	28	25	28	28	28	26	18	16	15	11	2				
foEs	MED	J 31	J 39	J 33	J 25	22	E 16	27	J 32	J 37	J 45	J 49	J 54	J 48	J 58	J 50	J 50	J 39	J 40	J 33	J 30	J 32	J 41	J 40	J 40
	CNT	26	25	26	27	23	24	26	27	25	28	28	27	28	28	28	27	26	27	28	26	25	25	25	25

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC. FEBRUARY, 1963

TABLE 87

CAMPBELL I. (52.5S, 169.2E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	33	29	26	22	21	32	42	48	52	55	56	60	59	60	60	58	56	55	56	58	62	64	65	59
	CNT	25	24	23	22	23	25	26	26	26	27	26	28	27	27	27	27	28	28	28	27	26	27	24	23
	UQ																								
	LQ																								
h'F2	MED							250	260	300	300	300	305	300	300	295	295	290	285	265	240				
	CNT							4	15	22	24	26	28	27	27	27	27	26	23	11	1				
	UQ																								
	LQ																								
h'F	MED	F 250	U 250	H 255	F 240	H 240	235	230	225	215	210	200	200	200	195	200	200	210	225	235	250	240	I 230	F 250	F 260
	CNT	15	13	16	16	10	22	23	24	25	27	26	24	24	26	26	26	28	27	26	27	24	16	15	12
	UQ																								
	LQ																								
M(3000)F2	MED	295	290	295	305	305	330	340	335	320	335	325	320	320	320	320	320	310	315	310	300	300	305	295	300
	CNT	25	24	23	21	23	25	26	25	26	27	25	28	27	27	27	27	28	28	28	27	26	27	24	23
	UQ																								
	LQ																								
foF1	MED								380	400	410	420	430	430	430	420	410	400	380	H 340					
	CNT								6	19	25	26	28	27	27	26	25	16	12	5					
foE	MED	210	200	U 200	150	I	160	210	240	280	300	310	310	320	320	310	290	270	240	220	170	160	280	220	H 150
	CNT	4	3	4	2	2	18	21	20	19	14	19	21	20	22	23	21	24	25	25	23	4	1	3	2
h'E	MED	101	101	103	103		111	115	105	105	105	103	103	105	105	105	105	109	109	113	113	119	121	135	
	CNT	3	2	2	1		7	13	16	22	24	26	27	24	23	17	11	10	17	12	4	1	1	1	
foEs	MED	J 27	18	22	19	U 14	17	23	26	30	32	32	32	32	32	31	29	27	26	21	19	22	F 14	G 16	21
	CNT	23	24	25	21	21	24	26	26	26	27	27	28	26	27	27	27	27	28	28	27	27	34	25	25

SWEEP 1.0 MC TO 25.0 MC IN 15 SECONDS FEBRUARY, 1963

TABLE 88

UPPSALA, SWEDEN (59.8N, 17.6E) TIME 1.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	21	20	18	16	15	14	14	14	26	43	50	55	56	59	50	48	40	28	21	16	16	18	19	19
	CNT	21	23	25	23	20	22	19	19	27	30	31	31	31	31	30	30	30	30	24	24	16	15	18	16
	UQ	23	23	21	18	16	15	15	15	28	46	53	58	65	62	52	51	44	32	23	18	17	20	21	21
	LQ	18	18	16	14	13	13	14	14	25	39	47	51	54	56	47	44	37	26	18	15	14	15	18	18
h'F2	MED											550	460	590	510	265									
	CNT											1	2	1	1	1									
	UQ																								
	LQ																								
h'F	MED	U 275	265	H 255	U 255	U 255	245	230	265	235	205	210	210	210	210	210	205	205	215	J 235	I 260	H 275	290	H 280	270
	CNT	24	26	28	24	21	23	20	19	27	30	31	31	31	31	30	31	31	30	26	23	20	16	17	17
	UQ	295	275	275	285	265	270	270	290	245	215	215	225	215	215	210	210	210	235	250	295	310	300	305	295
	LQ	260	245	250	255	245	235	210	235	220	200	205	205	205	205	230	200	200	210	220			270	255	250
M(3000)F2	MED	280	280	290	290	295	300	310	310	310	340	345	350	350	350	355	345	330	325	320	300	290	290	290	290
	CNT	21	23	24	22	20	22	19	19	27	33	30	31	31	31	30	30	30	30	24	22	16	15	18	16
	UQ	290	290	290	290	300	310	320	310	320	350	360	360	360	360	360	360	340	330	330	310	295	290	300	295
	LQ	275	270	280	280	290	290	290	300	300	330	330	340	340	340	340	330	330	310	300	290	275	280	280	290
foF1	MED											410	360	320	320										
	CNT											1	2	1	1										
foE	MED						90	U	90	90	130	170	195	205	210	210	185	160	130	I	70	H 70			
	CNT						1		2	5	22	15	26	28	24	24	22	15	8		1	1			
h'E	MED						145		140	150	140	115	115	115	115	120	125	130	145						
	CNT						1		1	1	16	3	9	15	10	14	11	6	2						
foEs	MED	31	30	27	30	32	30	32	31	27	32	32	32	36	34	31	30	30	30	31	30	30	24	30	26
	CNT	27	27	25	26	27	23	22	22	27	29	31	31	30	30	30	28	29	21	18	23	23	26	25	26

SWEEP 0.33 MC TO 20.0 MC IN 3 MINUTES. JANUARY, 1963

TABLE 89

DE BILT, NETHERLANDS (52.1N, 5.2E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	31	32	29	25	22	21	20	25	44	58	59	59	60	59	57	48	45	36	30	23	23	27	28	30
	CNT	28	29	28	29	23	24	27	29	30	30	30	31	31	31	31	33	30	31	30	31	31	32	32	30
	UQ	32	33	32	29	26	27	22	27	48	61	61	63	66	62	59	61	48	42	33	27	27	30	31	31
	LQ	28	28	27	23	19	17	16	23	40	52	53	57	58	56	52	48	43	33	27	21	22	23	26	27
h'F2	MED									u 245	235	225	225	225	225	220	215	l 235	l 245						
	CNT									2	11	22	28	28	30	26	13	3	1						
	UQ																								
	LQ																								
h'F	MED	275	275	285	285	f 285	265	280	f 265	225	220	220	215	210	215	220	215	210	230	235	f 260	f 285	285	290	280
	CNT	31	31	30	31	29	31	30	33	30	29	30	30	31	29	30	30	30	30	29	30	31	29	31	33
	UQ																								
	LQ																								
M(3000)F2	MED	300	300	300	300	310	335	345	310	340	355	350	355	345	345	360	360	360	330	335	320	310	305	300	300
	CNT	27	28	27	26	16	13	16	26	30	30	29	31	31	31	31	30	30	31	30	28	28	24	26	29
	UQ																								
	LQ																								
foF1	MED											l 360	360	330	330	280	l 250								
	CNT											4	9	13	1	5	2								
foE	MED									190	210	220	240	240	230	210	210	f							
	CNT									30	27	28	29	28	25	29	26	19							
h'E	MED									F	160	170	176	176	176	170		l							
	CNT									30	24	24	24	23	23	26	21	19							
foEs	MED																								
	CNT																								

SWEEP 1.8 MC TO 18.0 MC IN 4 MINUTES. JANUARY, 1963

TABLE 90

WARSAW (MIEDZESYN), POLAND (52.2N, 21.2E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	30	30	30	29	22	23	22	24	43	54	60	60	60	62	60	47	41	33	26	23	23	29	29	30
	CNT	18	21	24	22	20	24	23	20	23	18	15	15	17	20	15	24	19	24	22	17	16	19	23	24
	UQ	33	32	32	30	28	26	24	28	60	60	65	63	64	64	60	50	46	39	29	24	24	31	31	31
	LQ	30	27	27	23	20	20	20	23	42	50	58	58	60	58	55	44	40	32	24	22	23	25	25	26
h'F2	MED												250	240											
	CNT												6	4	2	1									
	UQ												285												
	LQ												240												
h'F	MED	f 285	f 265	f 260	260	f 260	f 270	f 260	f 260	225	225	230	230	215	230	230	230	220	240	250	265	f 300	f 295	f 290	f 285
	CNT	27	28	27	28	17	18	19	23	27	26	28	24	24	24	25	27	27	27	23	22	17	24	27	29
	UQ	300	275	275	265	245	240	275	265	245	235	245	240	230	240	240	230	215	245	260	260	300	300	290	300
	LQ	275	253	250	255	5	250	245	245	215	205	225	220	210	220	225	215	210	235	240	250	280	275	275	275
M(3000)F2	MED	295	295	295	290	315	315	330	315	345	345	350	345	345	340	350	350	335	335	330	315	290	285	295	290
	CNT	13	14	16	15	13	16	5	12	17	10	7	5	5	10	13	20	18	16	13	6	8	9	10	11
	UQ	300	310	305	305	320	315	350	330	350	350	355	360	360	350	360	360	345	345	330	325	305	305	305	295
	LQ	295	290	290	285	300	305	310	305	335	340	335	330	330	325	345	340	325	330	310	310	290	280	285	290
foF1	MED																								
	CNT																								
foE	MED									f 160	195	215	230	235	230	200	185	p							
	CNT									14	13	15	17	15	11	11	10	10							
h'E	MED											F													
	CNT											13	25	25	25	23									
foEs	MED	F	F	F	E	F	F	F	F	F		22	20					F	F	F	F	F	F	F	F
	CNT	16	12			16	16	16	16	19	21	23	26					16	16	16	16	16	16	19	16
		28	26	27	28	27	28	23	24	26	26	24	27					28	28	26	23	32	24	29	29

SWEEP 1.0 MC TO 18.0 MC IN 20 SECONDS. JANUARY, 1963

TABLE 91

PARIS, FRANCE (48.8N, 2.3E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	32	31	31	29	24	22	25	24	42	58	58	61	60	59	57	52	45	42	33	27	29	32	33	33
	CNT	8	12	13	11	8	8	13	8	18	17	24	22	18	22	23	21	19	18	17	14	14		8	9
	UQ																								
	LQ																								
h'F2	MED									265	230	230	235	230	230	230	215	220							
	CNT											21	13	17	22	16									
	UQ																								
	LQ																								
h'F	MED	260	255	255	255	255	235	232	250	208	215	210	200	205	212	210	211	202	210	235	243	248	275	270	260
	CNT	21	25	23	22	17	16	8	13	22	28	23	24	17	24	21	24	22	21	22	22	16	19	23	21
	UQ																								
	LQ																								
M(3000)F2	MED	285	290	285	300	298	330	330	295	320	355	365	325	325	325	330	320	350	345	330	318	290	285	290	310
	CNT	5	11	8	4	4	3	8	5	16	9	12	13	10	15	16	14	15	14	15	5	7	3	4	7
	UQ																								
	LQ																								
foF1	MED											280	360	360	360	360	310	280							
	CNT											4	4	4	4	5	5	2							
foE	MED									195	215	240	250	258	250	240	215	195							
	CNT	1		2					1	7	24	19	16	14	22	20	14	4	2	1					
h'E	MED									150	115	105	105	105	110	110	115	D 120							
	CNT	1		2					2	1	13	19	15	12	19	17	3	1	2						
foEs	MED	J				J			J									J							
	CNT	31	17		17	27	19	21		23	29	27	27	29	27			25	30	40	41	41	31	32	40
		7	9	9	11	2	2	2		7	25	25	23	21	33	36		7	7	8	7	4	7	8	6

SWEEP 1.4 MC TO 17.0 MC. JANUARY, 1963

TABLE 92

DAKAR, SENEGAL (14.7N, 17.4W) TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	54	45	40	48	44	38	32	48	26	34	37	45	84	90	88	84	67	74	74	67	82	83	68	68
	CNT	21	1	20	22	4	23	14	33	24	1	25	18	22	25	14	13	8	13	5	10	8	1	7	11
	UQ																								
	LQ																								
h'F2	MED								261	260	265	260	260	300	300	290	280	275	290	260					
	CNT								4	28	26	31	3	6	27	28	20	19	14	3					
	UQ																								
	LQ																								
h'F	MED	260	260	235	225	245	260	280	245	235	215	205	190	135	145	132	141	215	240	240	243	245	265	245	248
	CNT	28	28	28	27	14	20	18	10	23	23	21	23	13	26	22	21	20	20	26	19	26	27	30	28
	UQ																								
	LQ																								
M(3000)F2	MED	320	318	300	306	320	320	320	310	325	345	345	328	295	295	325	320	307	305	325	325	300	318	315	305
	CNT	10	7	7	8	11	1	5	18	28	7	12	16	12	13	13	15	28	11	11	5	8	8	6	8
	UQ																								
	LQ																								
foF1	MED											450	430	450	450	440	440	430							
	CNT											1	3	9	14	7	4	1							
foE	MED								180	210	220	225	230	330	330	325	320	280	230						
	CNT	2	1	3	2	4	4	6	17	14	9	5	5	4	7	8	4	4	8	12	4	6	2	4	2
h'E	MED									135	135	135	135	135	135	135	110	120	135						
	CNT	2	1	3	2	1	2	3	25	30	48	29	26	21	1	25	27	35	34	36	5	4	3	4	2
foEs	MED	J				J			J									J							
	CNT	14	16	17	17	18	24	27	22	29	42	45	41	48	41	45	41	41	30	24	22	28	31	23	22
		17	18	21	17	17	19	22		37	41	41	41	41	41	41	41	41	38	36	28	24	33	26	18

SWEEP 1.2 MC TO 17.0 MC. JANUARY, 1963

TABLE 93

[illegible], FRENCH SOMALILAND ([illegible]) TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	64	77	74	75	73	78	80	[illegible]	[illegible]	85	83	[illegible]	[illegible]	77	[illegible]	[illegible]
	CNT	12	7	21	24	26	23	24	23	[illegible]	24	29	8	[illegible]	27	29	25	22	15	16	[illegible]	[illegible]	3	[illegible]	[illegible]
	UQ																								
	LQ																								
h'F2	MED								[illegible]	[illegible]	[illegible]	[illegible]	355	360	[illegible]	355	342	320	288						
	CNT								6	22	28	[illegible]	24	27	28	28	4	[illegible]	10						
	UQ																								
	LQ																								
h'F	MED	[illegible]	255	[illegible]	[illegible]	260			246	225	[illegible]	[illegible]	[illegible]	[illegible]	198	[illegible]	210	[illegible]	250	260	[illegible]	[illegible]	[illegible]	250	250
	CNT	21	26	27	25	26	19	21	[illegible]	[illegible]	[illegible]	29	25	26	26	26	29	17	25	[illegible]	[illegible]	17	16	16	23
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	335	330	[illegible]	[illegible]	290	[illegible]	275	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	275	295	[illegible]	[illegible]	270			330
	CNT	9	14	[illegible]	[illegible]	22	9	[illegible]	23	15	21	29	28	[illegible]	27	29	24	21	13	[illegible]	8	5			6
	UQ																								
	LQ																								
foF1	MED								[illegible]		420	440	440	440	440	440									
	CNT								2		6	18	9	[illegible]	15	8									
foE	MED								185	245	280	310	325	330	340	325	305	275	225						
	CNT			[illegible]	4	1	1	1	13	14	9	7	5	5	12	17	10	11	8	8	3				
h'E	MED								135	115	110	108	105	100	105	110	115	115	120						
	CNT			1	4	1	1	1	23	16	11	6	6	3	6	9	[illegible]	9	9	17	3				
foEs	MED	25							J 26	30	J 36	38	J [illegible]	[illegible]	J 38	38	37	J 36	33	27	26	J 21	26	27	26
	CNT	19	20	22	26	27	[illegible]	18	24	29	28	26	27	28	28	28	27	25	24	22	21	17	19	24	23

SWEEP 1.25 MC TO 20.0 MC. JANUARY, 1963

TABLE 94

TAHITI, [illegible] IS. ([illegible]) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	44	38	33	45	[illegible]	70	[illegible]	95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	84	72	68	[illegible]	67	[illegible]
	CNT	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	28	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	26	30	[illegible]	21	[illegible]	[illegible]
	UQ																								
	LQ																								
h'F2	MED							265	[illegible]	[illegible]	375	388	380	470	[illegible]	315	280	270	[illegible]	265					
	CNT							2	12	16	18	26	27	28	[illegible]	28	31	[illegible]	27	17					
	UQ																								
	LQ																								
h'F	MED	[illegible]	245	[illegible]	265	[illegible]	265	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	192	195	[illegible]	200	[illegible]	[illegible]	[illegible]	238	[illegible]	[illegible]	300	[illegible]	260
	CNT	26	25	23	[illegible]	18	19	[illegible]	13	6	4	[illegible]	6	8	7	11	13	15	15	22	27	29	27	24	27
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	305	312	312	315	315	[illegible]	275	[illegible]	275	280	285	305	325	312	315	305	295	275	285	295	318
	CNT	13	[illegible]	8	9	8	[illegible]	2	27	26	23	27	2	18	17	18	20	22	23	25	26	25	21	15	14
	UQ																								
	LQ																								
foF1	MED										470	460	470	470	470	450	440	440							
	CNT										6	13	14	14	11	13	14	4							
foE	MED							168	260	295	330	350	352		350		330	300	255	200					
	CNT			2	1	1	3	4	7	9	1	1	2		1		3	16	9	8	14	4	2		
h'E	MED								105	105	105	105	105	105	105	105	105	105	110						
	CNT			2	1	[illegible]	3	22	15	17	17	18	20	20	20	19	15	14	12	18	16	4	2		
foEs	MED	J 30	J 31	J 22	31	24	31	J 31	38	56	56	J 53	52	59	54	J 51	J 47	38	36	J 31	J 32	J 32	J 31	J 31	J 31
	CNT	28	29	29	28	26	28	28	29	30	28	24	24	20	23	25	26	31	31	31	31	28	25	[illegible]	30

SWEEP 1.2 MC TO 17.0 MC. JANUARY, 1963

TABLE 95

TANANARIVE, MALAGASY REPUBLIC (18.8S, 47.5E) TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	48	46	38	35	29	28	42	51	57	68	72	81	89	96	100	94	81	77	70	64	60	57	52	48
	CNT	25	28	28	28	26	26	29	27	22	30	26	24	31	30	31	30	31	29	28	30	25	26	27	26
	UQ																								
	LQ																								
h'F2	MED								318	355	352	350	368	355	335	305	292	285	270	248					
	CNT								18	26	28	28	30	31	31	31	30	29	29	18					
	UQ																								
	LQ																								
h'F	MED	25	235	238	235	230	252	231	22[illegible]	232	230	215	215	232	220	220	220	220	215	240	245	260	250	250	255
	CNT	27	28	26	25	24	26	27	25	22	20	20	12	10	15	11	14	19	19	15	18	21	26	25	21
	UQ																								
	LQ																								
M(3000)F2	MED	310	318	322	340	325	308	340	310	295	285	278	270	275	285	300	305	310	320	320	300	295	310	300	295
	CNT	21	26	22	23	23	22	29	22	21	29	24	24	30	29	31	29	31	28	27	27	18	21	19	20
	UQ																								
	LQ																								
foF1	MED								380	430	440	450	440		450	440	430	410							
	CNT								5	16	17	10	2		6	6	20	17							
foE	MED							190	260	300	330	340	350	355	350	350	330	305	250	175					
	CNT	2	3	5	10	13	25	23	27	31	30	24	17	18	26	30	29	27	19	6	12	5	1	1	2
h'E	MED							125	120	115	110	110	105	108	110	110	110	115	120						
	CNT	2	3	5	10	13	26	21	26	26	22	21	9	6	15	18	24	27	21	3	12	5	1	1	2
foEs	MED	J 16	J 18	14	J 15	J 16	J 15	22	30	36	38	40	42	42	42	45	40	J 37	J 30	J 28	28	J 28	J 26	J 28	J 26
	CNT	30	31	31	31	31	29	29	24	23	29	30	28	31	30	31	29	31	29	28	26	27	23	26	31

SWEEP 1.25 MC TO 20.0 MC. JANUARY, 1963

TABLE 96

RAROTONGA, COOK IS. (21.2S, 159.8W) TIME 165.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	58	49	45	43	42	41	52	62	70	81	92	102	107	113	114	112	95	80	70	64	65	63	62	64
	CNT	19	23	19	25	27	26	27	26	29	30	31	30	31	31	29	30	27	25	26	25	26	25	19	17
	UQ																								
	LQ																								
h'F2	MED							330	300	320	350	350	340	320	310	300	270	260	270	300					
	CNT							3	19	28	29	30	31	31	31	31	29	27	25	1					
	UQ																								
	LQ																								
h'F	MED	250	250	290	290	270	260	240	230	230	220	230	220	250	210	240	230	240	240	250	270	300	300	290	260
	CNT	29	29	28	29	29	24	26	21	23	22	21	21	20	18	19	17	12	17	28	27	31	31	31	31
	UQ																								
	LQ																								
M(3000)F2	MED	360	340	315	320	325	330	340	340	325	320	320	325	325	330	340	350	350	340	340	305	310	310	325	340
	CNT	19	23	19	25	27	26	27	26	29	30	31	31	31	31	29	29	27	24	26	25	26	25	19	17
	UQ																								
	LQ																								
foF1	MED							U 330	400	440	450	450	460	450	450	440	430	410	380						
	CNT							1	6	21	23	25	24	24	22	23	21	15	4						
foE	MED							210	260	310	330	350	350	350	350	330	310	290	240	170					
	CNT							3	6	9	8	11	12	12	17	14	9	9	8	3					
h'E	MED						110	100	100	100	100	100	100	100	100	100	100	100	100	135					
	CNT						1	20	25	27	25	26	23	25	27	27	23	24	22	7					
foEs	MED	J 31	J 35	J 31	J 30	J 25	J 26	J 36	J 46	J 52	J 50	J 50	J 49	J 50	45	J 50	J 50	J 51	J 49	J 40	J 40	J 40	J 33	J 32	J 37
	CNT	29	27	25	28	28	30	28	29	30	31	31	31	31	31	31	31	31	31	31	30	30	30	30	26

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. JANUARY, 1963

TABLE 97

CAMPBELL I. (52.5S, 169.2E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	38	35	30	30	32	[illegible]	46	50	55	53	56	58	55	54	55	56	[illegible]	[illegible]	[illegible]	[illegible]	60	[illegible]	49	44
	CNT	28	29	26	26	29	29	28	26	27	29	[illegible]	[illegible]	31	31	30	[illegible]	[illegible]	27	28	29	28	[illegible]	28	27
	UQ																								
	LQ																								
h'F2	MED					255	260	290	[illegible]	300	[illegible]	300	[illegible]	340	340	340	330	315	[illegible]	280	[illegible]	[illegible]			
	CNT					[illegible]	4	19	22	[illegible]	28	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	26	24	[illegible]	1			
	UQ																								
	LQ																								
h'F	MED	250	260	250	260	240	235	220	[illegible]	[illegible]	[illegible]	200	195	[illegible]	200	205	210	215	[illegible]	[illegible]	245	[illegible]	[illegible]	245	[illegible]
	CNT	[illegible]	11	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	25	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	17	18	[illegible]	[illegible]	[illegible]	17	15
	UQ																								
	LQ																								
M(3000)F2	MED	[illegible]	290	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	310	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	28	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27
	UQ																								
	LQ																								
foF1	MED						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	430	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	CNT						[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7				
foE	MED		[illegible]	[illegible]	110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT			3	[illegible]	18	18	1	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	24	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	1	[illegible]
h'E	MED		117	111	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	111	[illegible]		119	[illegible]	
	CNT		1	1	3	8	14	[illegible]	25	27	26	[illegible]	[illegible]	28	[illegible]	[illegible]	27	29	24	24	14		[illegible]	[illegible]	
foEs	MED	[illegible]	[illegible]	28	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38	[illegible]	33	[illegible]	[illegible]	[illegible]	33	[illegible]
	CNT	[illegible]	[illegible]	27	29	29	[illegible]	[illegible]	[illegible]	[illegible]	29	30	[illegible]	31	[illegible]	30	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30

SWEEP 1.0 MC TO 25.0 MC IN 15 SECONDS. JANUARY, 1963

TABLE 98

TOWNSVILLE, AUSTRALIA (19.3S, 146.7E) TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	47	42	36	28	30	30	34	61	75	J 76	U 84	D 80	80	U 72	U 77	J 75	69	66	62	62	55	51	51	50
	CNT	21	22	23	24	24	24	23	23	22	14	8	5	11	10	15	15	16	22	23	21	23	19	17	17
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	250	235	230	260	295	300	265	250	240	220						200	200	230	250	250	250	270	290	260
	CNT	21	20	19	16	16	15	18	22	21	15	2	1	1	2	3	8	11	15	20	18	15	15	20	20
	UQ																								
	LQ																								
M(3000)F2	MED	290	310	315	290	280	280	295	320						310			305	300	290	280	275	270	270	285
	CNT	17	18	19	21	20	21	23	17	4	2			1	5	3	4	9	15	18	16	17	13	11	13
	UQ																								
	LQ																								
foF1	MED									400	430	440	450		470	460	400	400							
	CNT									10	13	6	5	4	5	7	9	7	2						
foE	MED								210	275	300	320					285	270	230	F 180					
	CNT								19	21	14	11	4	4	3	4	7	13	12	10					
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. SEPTEMBER, 1962

TABLE 99

BYRD STATION, ANTARCTICA (80.0S, 120.0W) TIME 120.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED			32	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	4					[illegible]	
	CNT	4	4	13	8	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4				[illegible]	[illegible]
	UQ			41	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					44	
	LQ			22	[illegible]		[illegible]	[illegible]	14	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]					[illegible]	
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	295	[illegible]	312	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	282	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	18	[illegible]	[illegible]	14	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	248	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
M(3000)F2	MED			[illegible]			[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]						
	CNT	[illegible]	1	8	4		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	1				4	
	UQ			[illegible]			[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]						
	LQ			[illegible]			[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]						
foF1	MED																								
	CNT																								
foE	MED																								
	CNT												[illegible]	1											
h'E	MED																								
	CNT												1	4											
foEs	MED	42	41	37	37	[illegible]	[illegible]	[illegible]	[illegible]	21	20	20	19	17	20	[illegible]	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	29	31	29	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	28	27	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	30	[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. MAY, 1962

TABLE 100

BYRD STATION, ANTARCTICA (80.0S, 120.0W) TIME 120.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]					
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]					
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]					
foF1	MED																								
	CNT																								
foE	MED													[illegible]	[illegible]	[illegible]									
	CNT									[illegible]		[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
h'E	MED												[illegible]	[illegible]	[illegible]	[illegible]									
	CNT						[illegible]	[illegible]	[illegible]	[illegible]	4	4	[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	4		[illegible]		[illegible]		[illegible]
foEs	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. APRIL, 1962

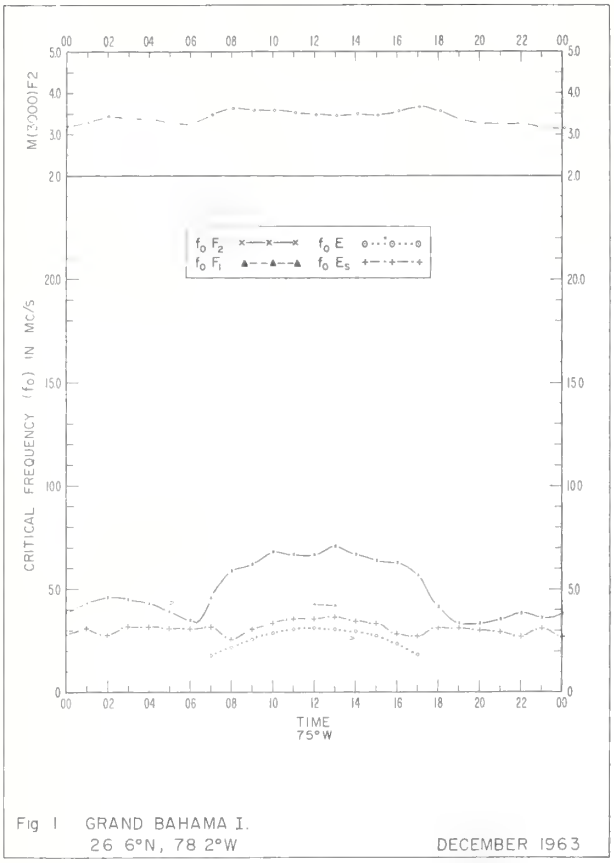

Fig 1 GRAND BAHAMA I.
26 6°N, 78 2°W
DECEMBER 1963

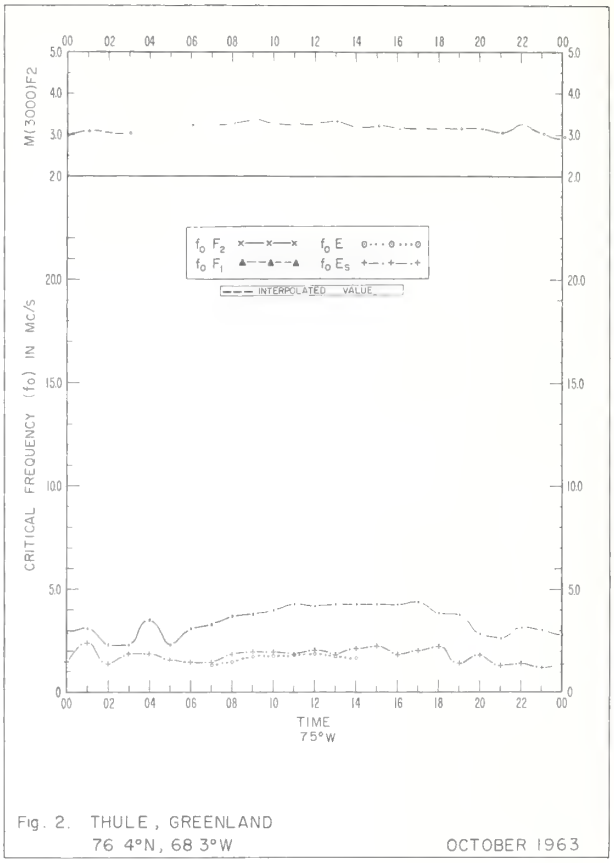

Fig. 2. THULE, GREENLAND
76 4°N, 68 3°W
OCTOBER 1963

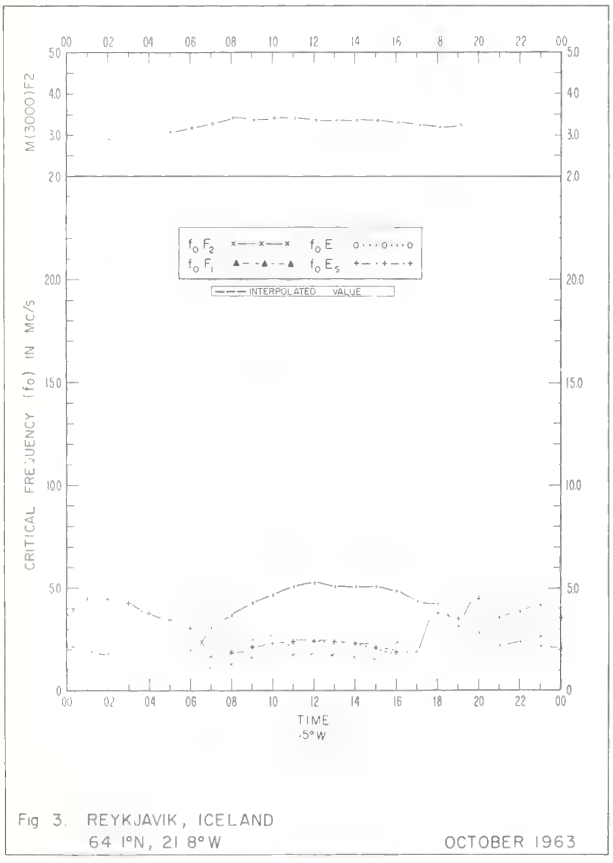

Fig 3. REYKJAVIK, ICELAND
64 1°N, 21 8°W
OCTOBER 1963

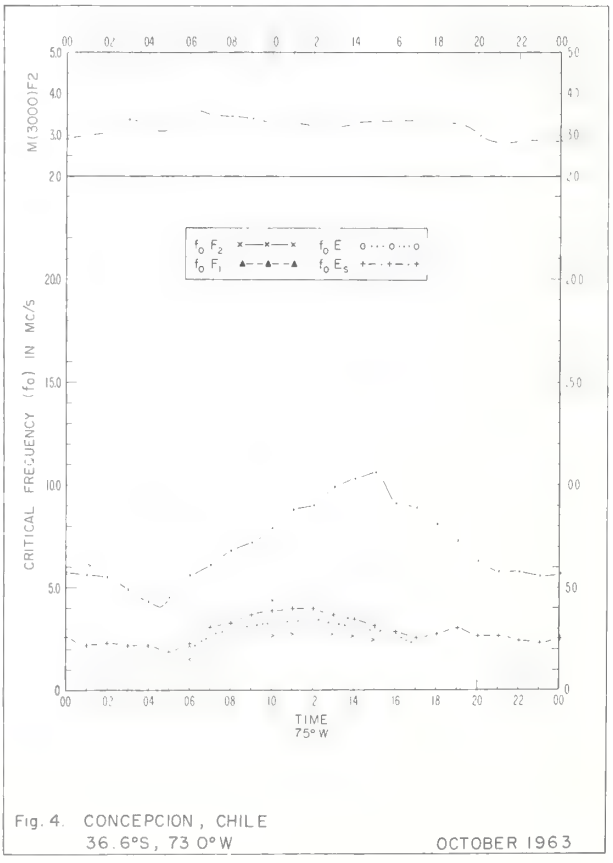

Fig. 4. CONCEPCION, CHILE
36.6°S, 73 0°W
OCTOBER 1963

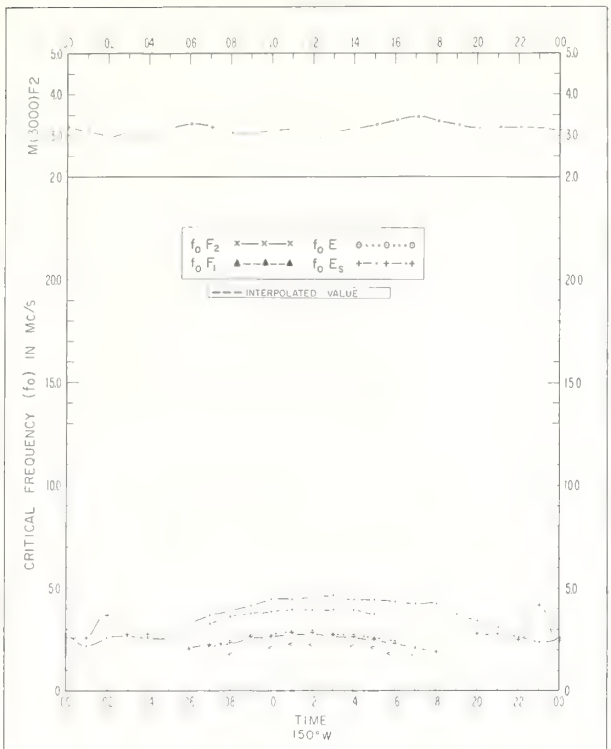

Fig. 5 ANCHORAGE, ALASKA
61.2°N, 149.9°W SEPTEMBER 1963

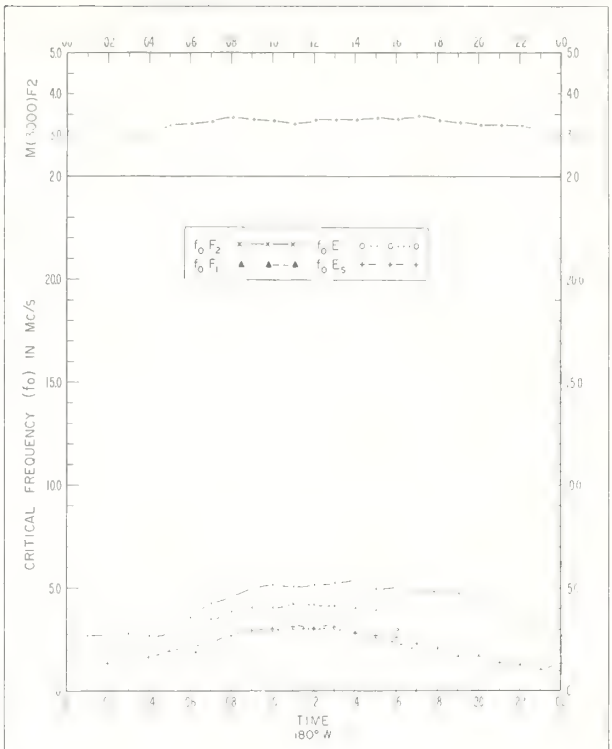

Fig 6. ADAK, ALASKA
51.9°N, 176.6°W SEPTEMBER 1963

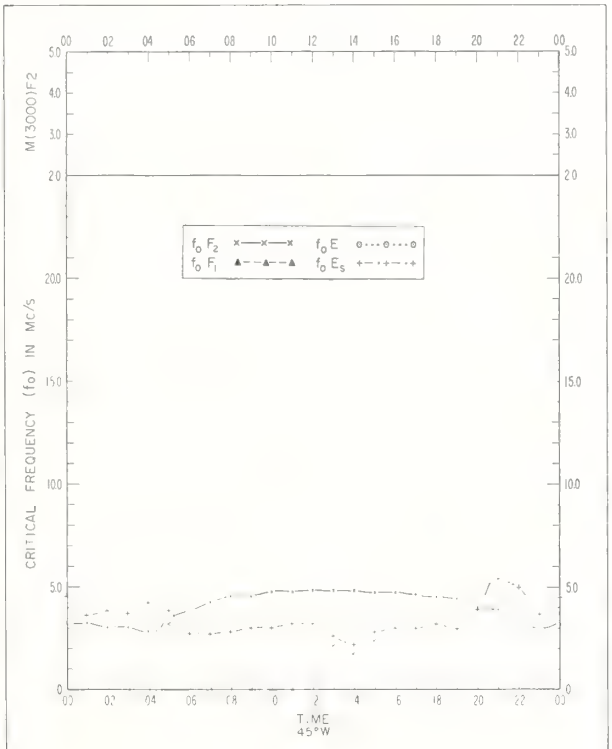

Fig 7. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4° W AUGUST 1963

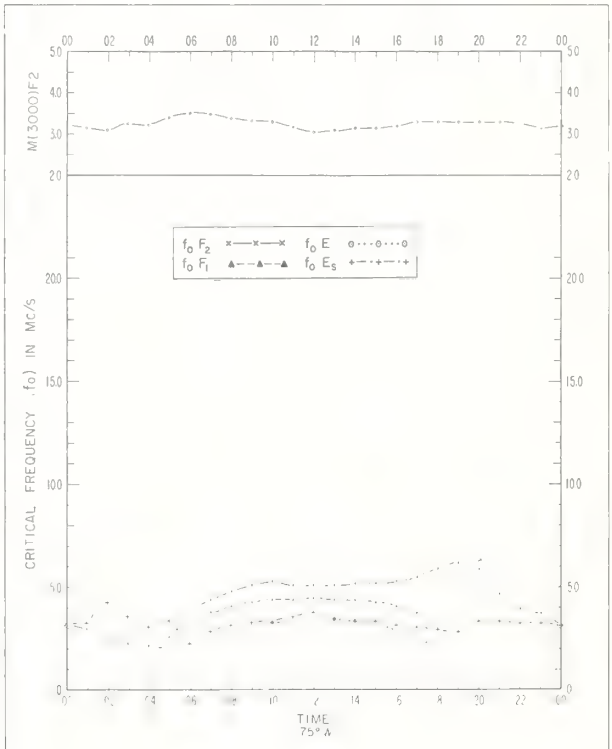

Fig 8 FT MONMOUTH, NEW JERSEY
40.4°N, 74.1°W AUGUST 1963

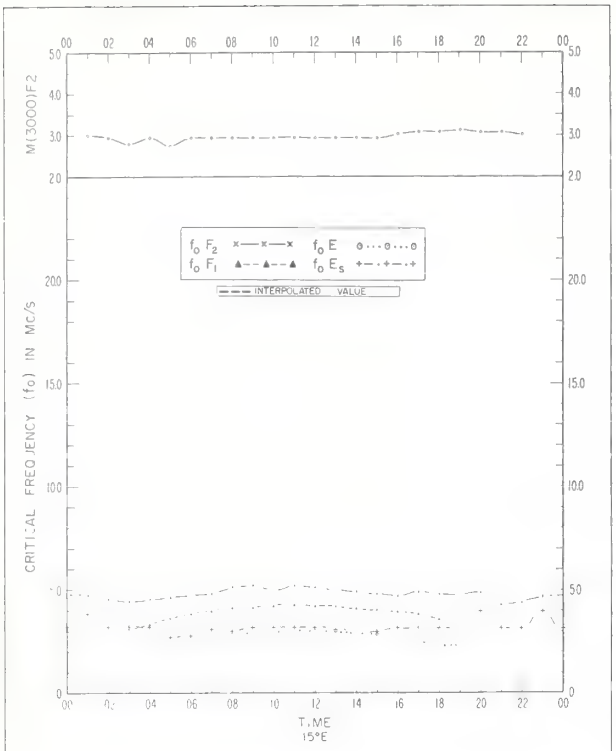

Fig. 9. TROMSO, NORWAY
69.7°N, 19.0°E
JUNE 1963

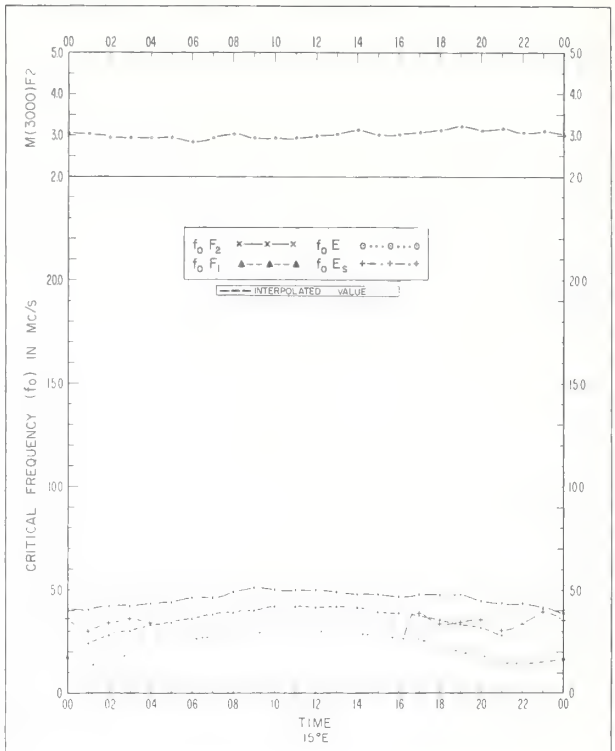

Fig 10. KIRUNA, SWEDEN
67.8°N, 20.4°E
JUNE 1963

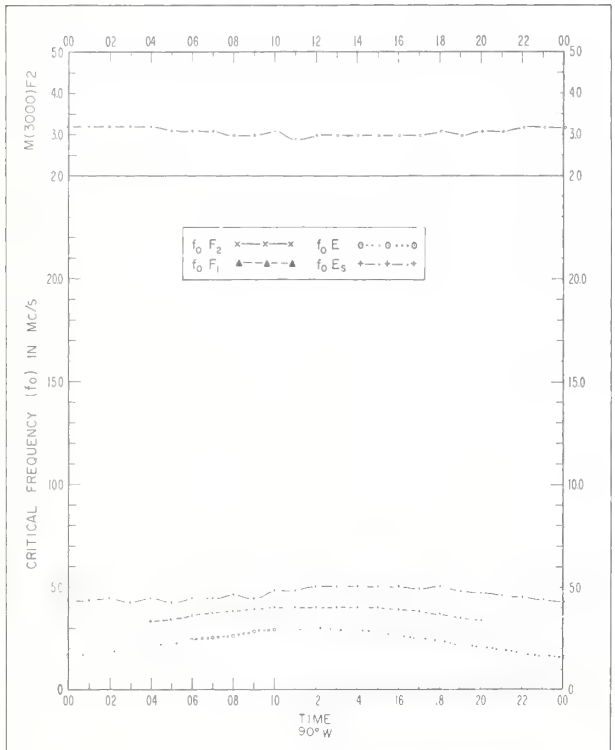

Fig. 11 RESOLUTE BAY, CANADA
74.7°N, 94.9°W
MAY 1963

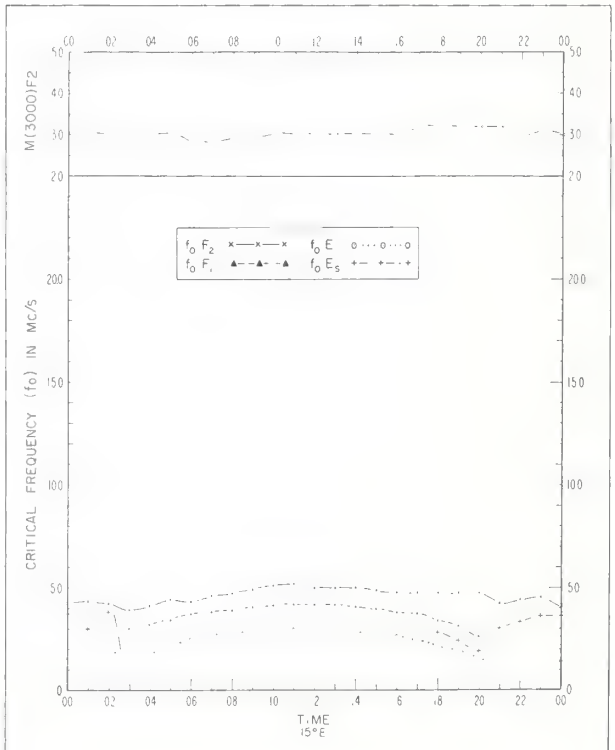

Fig. 12. KIRUNA, SWEDEN
67.8°N, 20.4°E
MAY 1963

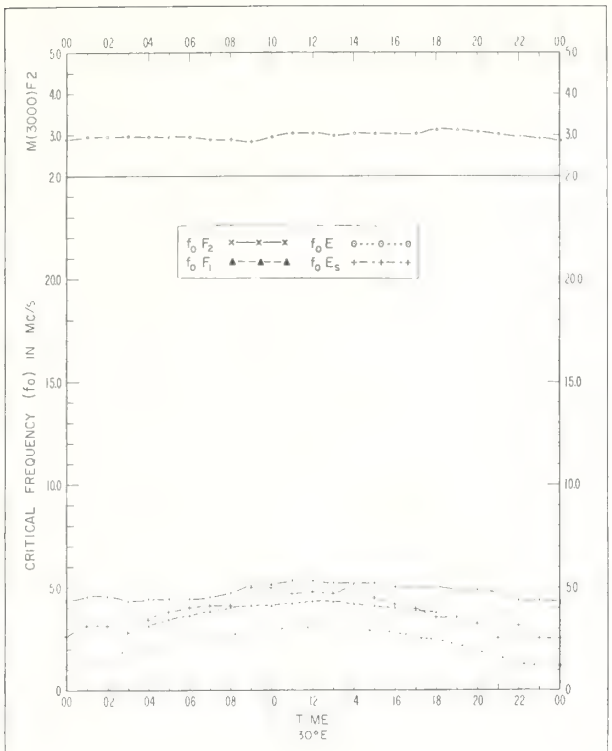

Fig. 13 SODANKYLA, FINLAND
67.4°N, 26.6°E MAY 1963

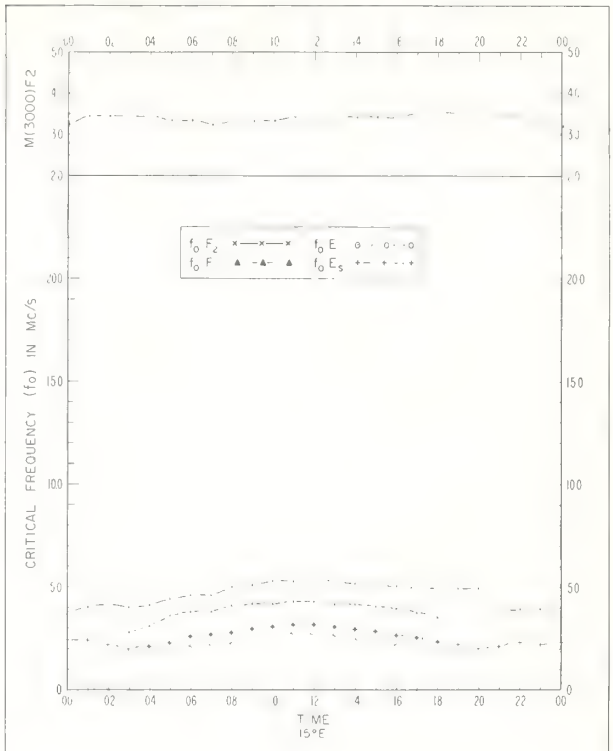

Fig 14 LULEA, SWEDEN
65.6°N, 22.1°E MAY 1963

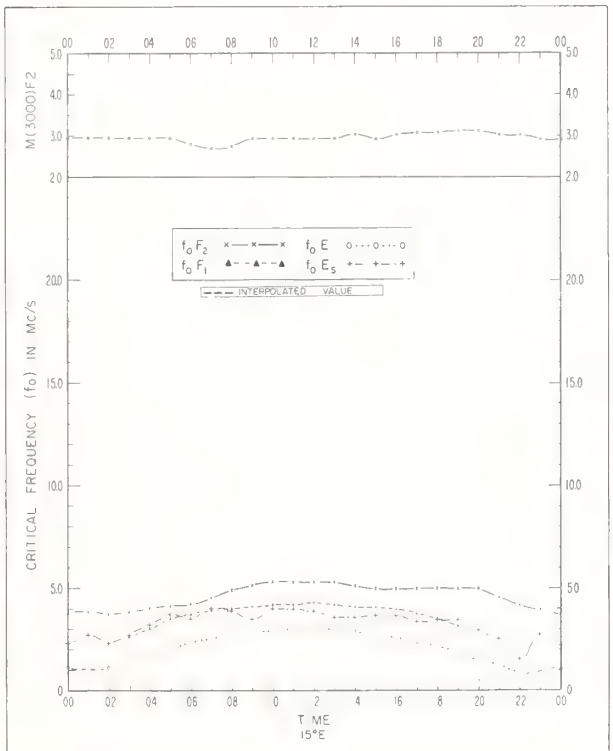

Fig. 15. LYCKSELE, SWEDEN
64.7°N, 18.8°E MAY 1963

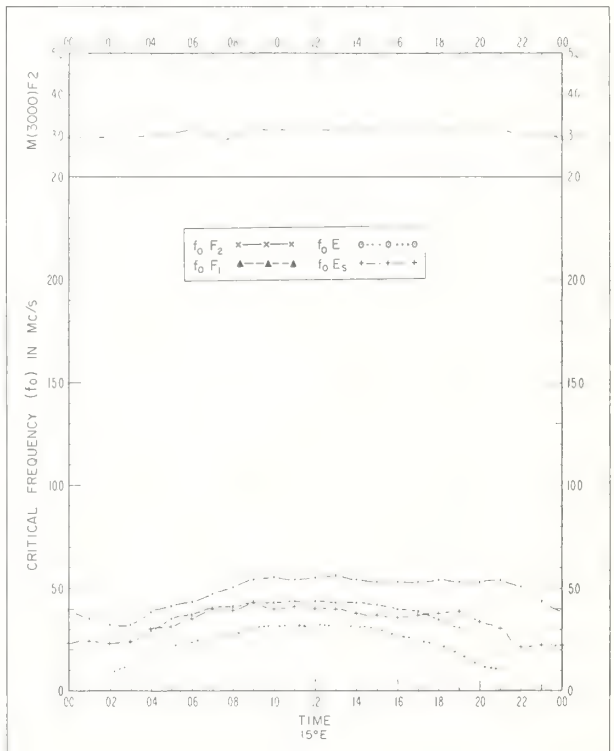

Fig 16. UPPSALA, SWEDEN
59.8°N, 17.6°E MAY 1963

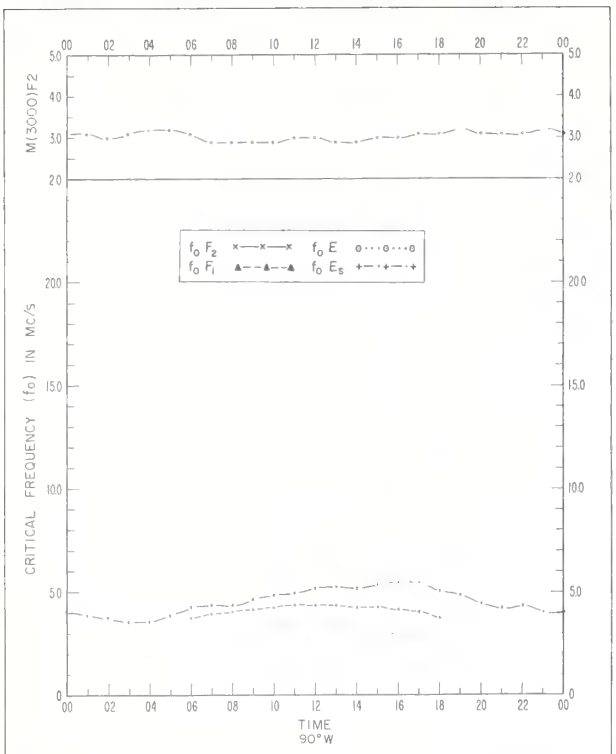

Fig. 17. CHURCHILL, CANADA
58.8°N, 94.2°W
MAY 1963

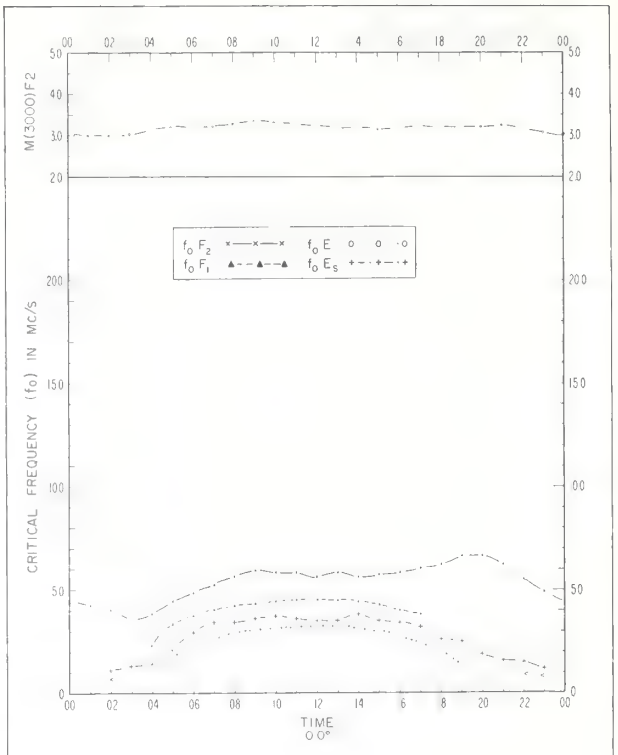

Fig. 18. DOURBES, BELGIUM
50.1°N, 4.6°E
MAY 1963

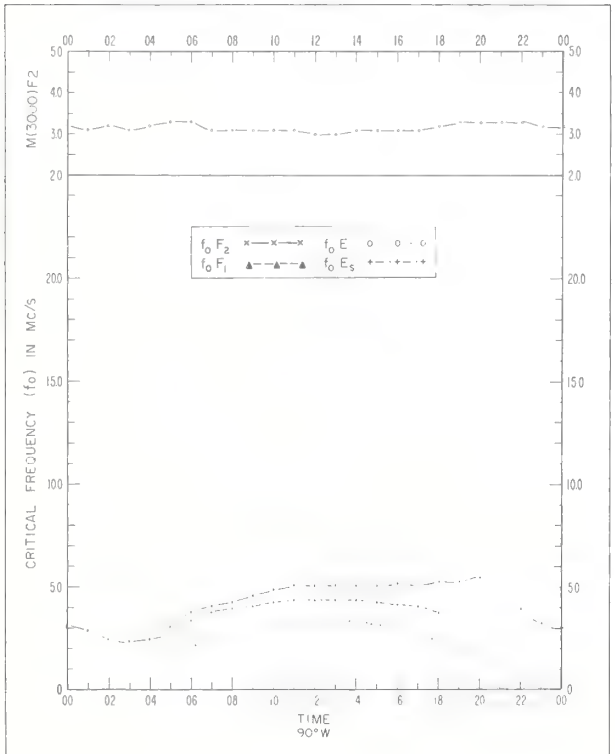

Fig. 19. WINNIPEG, CANADA
49.9°N, 97.4°W
MAY 1963

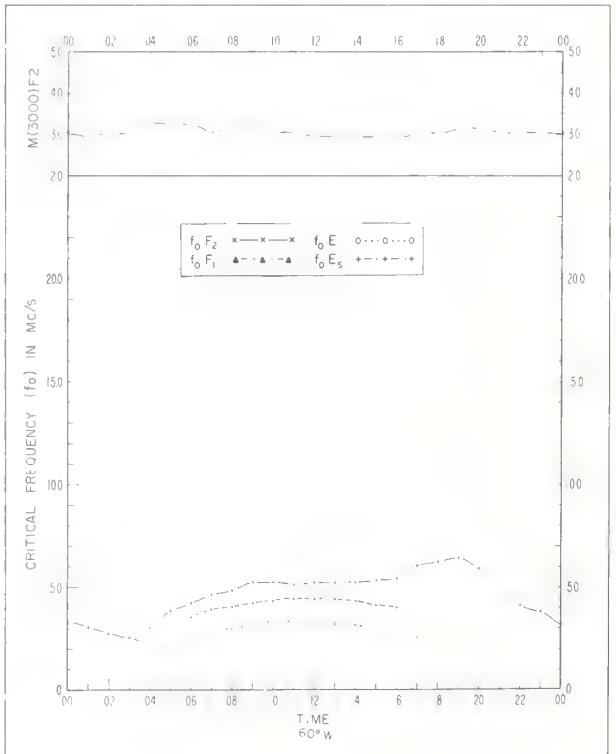

Fig. 20. ST. JOHN'S, NEWFOUNDLAND
47.6°N, 52.7°W
MAY 1963

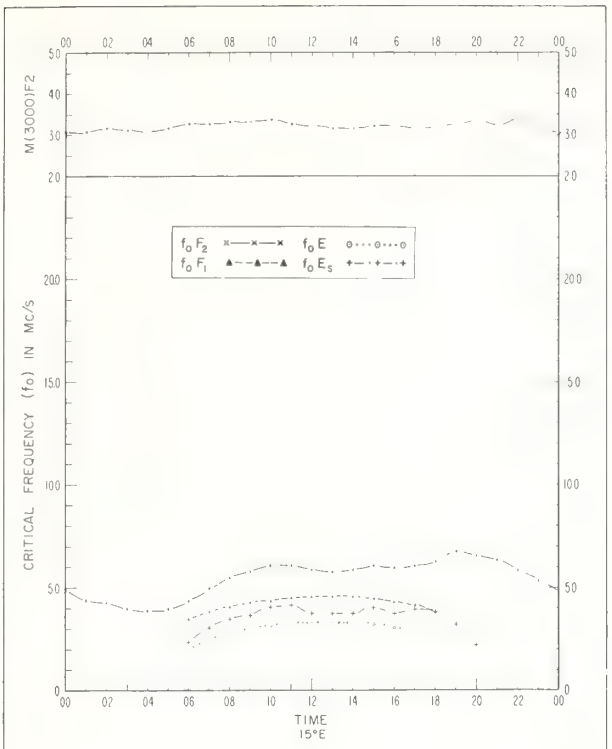

Fig. 21. SOTTENS, SWITZERLAND
46 6°N, 6.7°E
MAY 1963

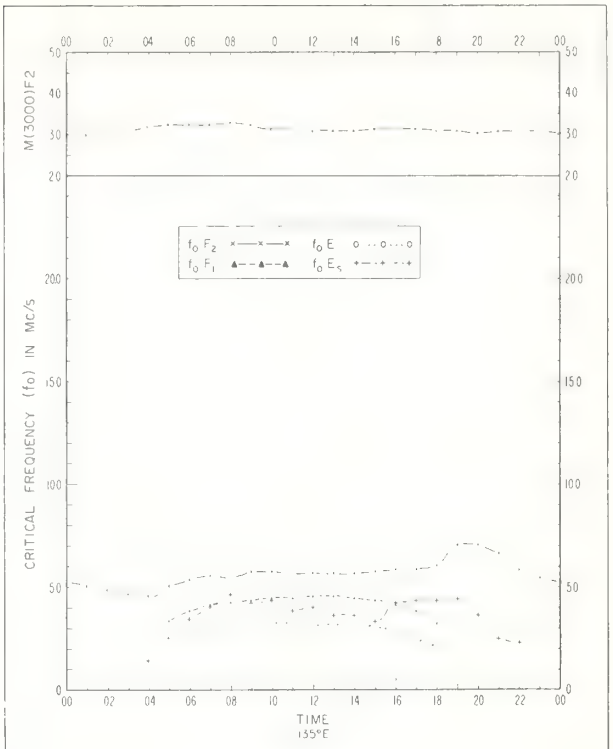

Fig. 22 WAKKANAI, JAPAN
45.4°N, 141 7°E
MAY 1963

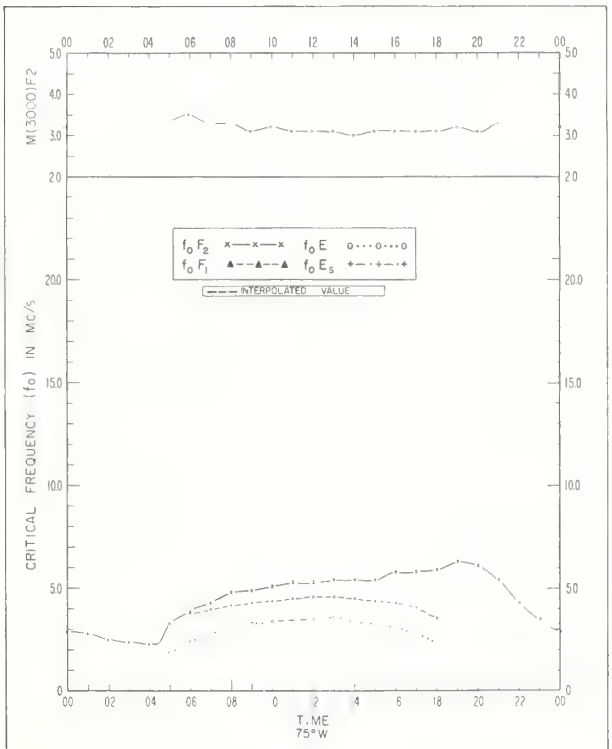

Fig. 23. OTTAWA, CANADA
45.4°N, 75.9°W
MAY 1963

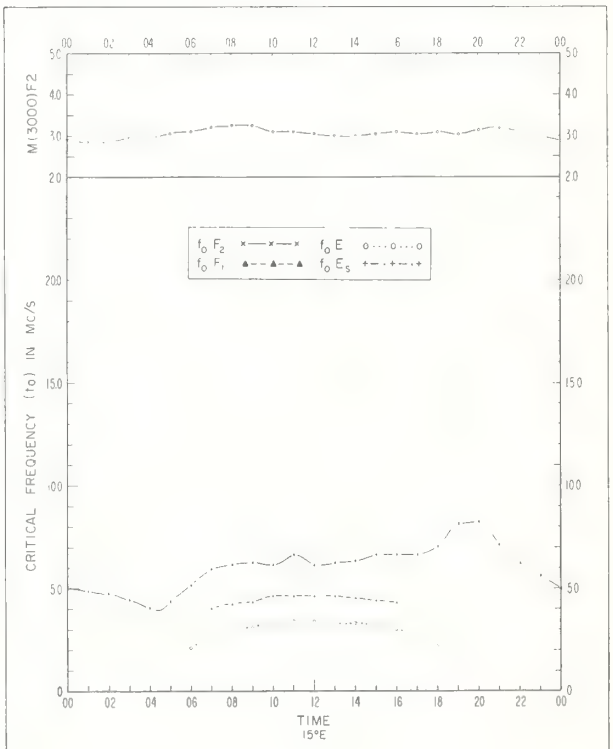

Fig. 24. ROME, ITALY
41.8°N, 12.5°E
MAY 1963

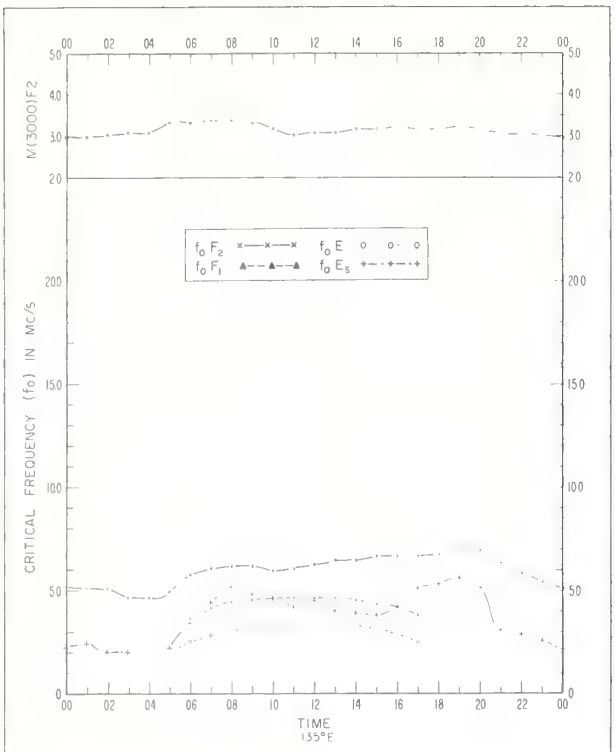

Fig. 25 AKITA, JAPAN
39.7°N, 140.1°E
MAY 1963

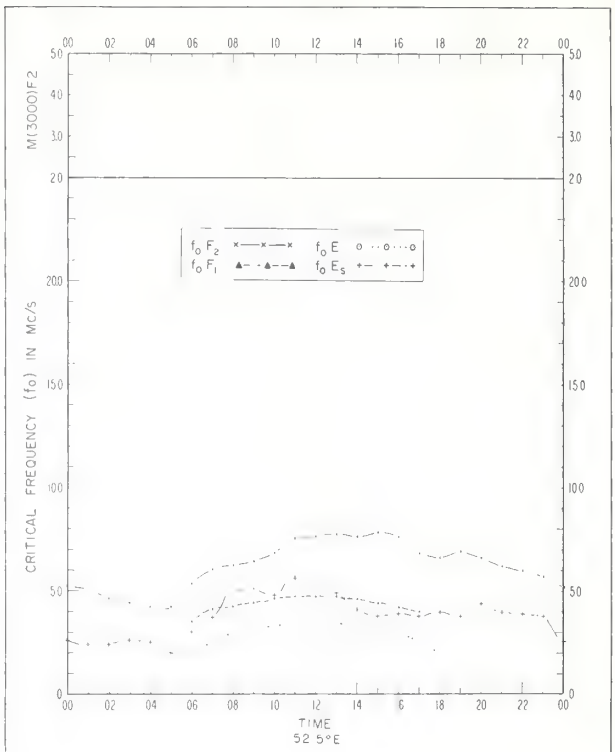

Fig. 26. TEHRAN, IRAN
35.7°N, 51.4°E
MAY 1963

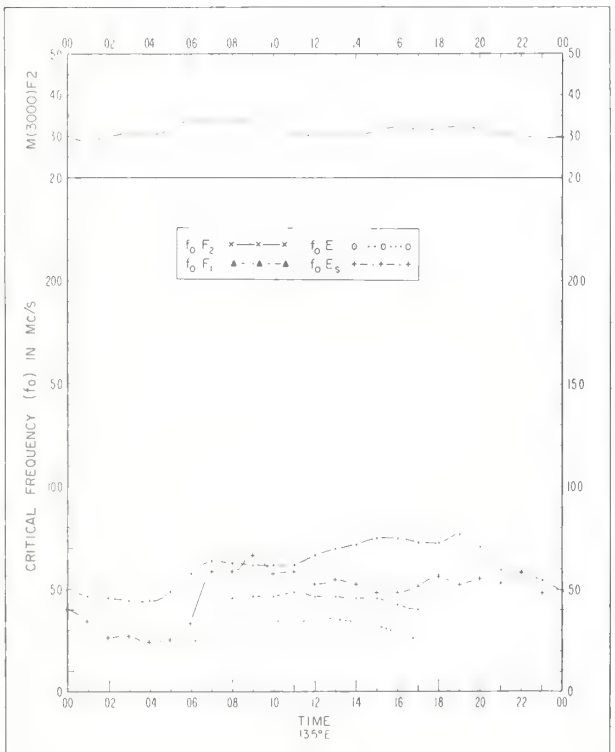

Fig. 27. KOKUBUNJI, TOKYO, JAPAN
35.7°N, 139.5°E
MAY 1963

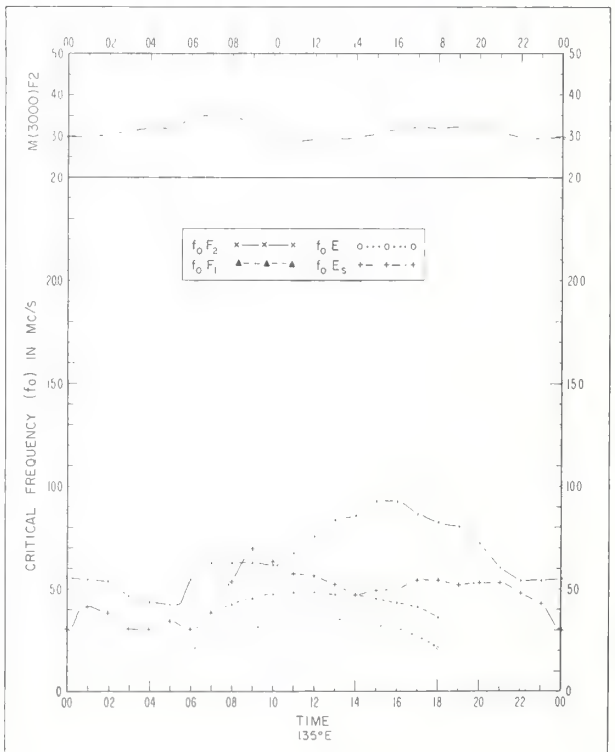

Fig 28 YAMAGAWA, JAPAN
31.2°N, 130.6°E
MAY 1963

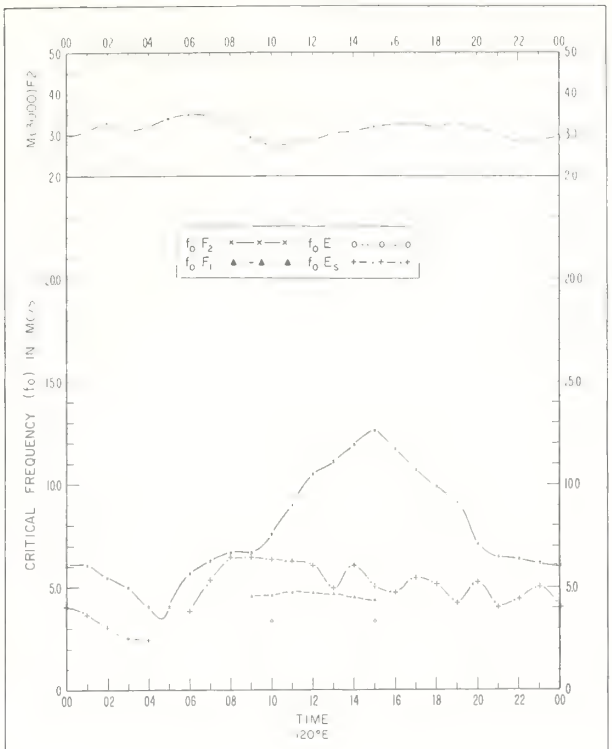

Fig 29. TAIPEI (TAIWAN), CHINA
25.0°N, 121 5°E
MAY 1963

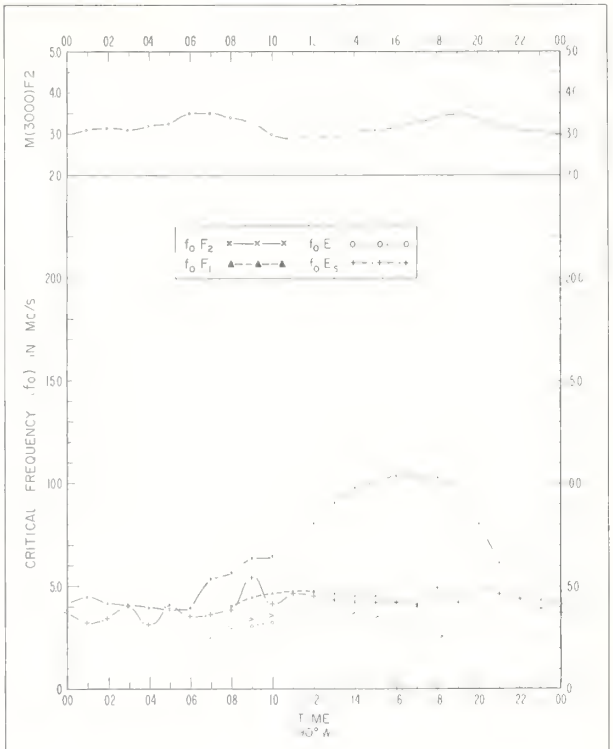

Fig 30. EL CERILLO, MEXICO
19 3°N, 99 5°W
MAY 1963

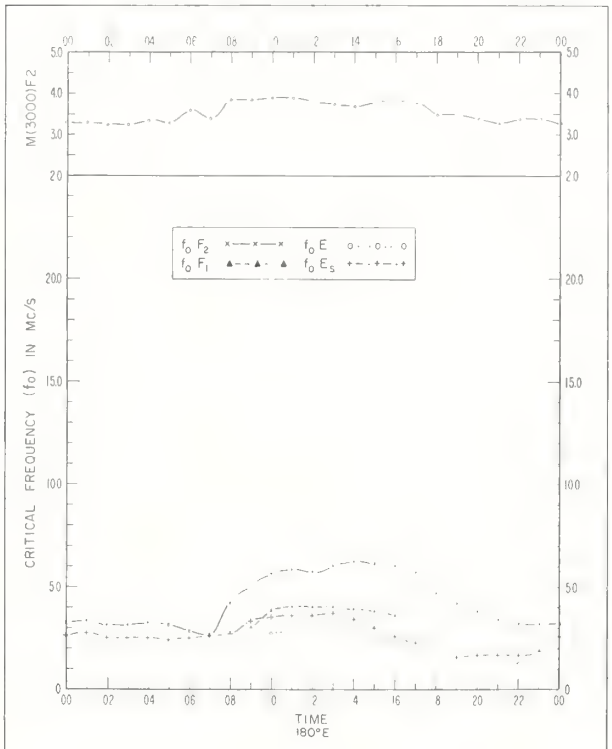

Fig. 31. GODLEY HEAD (CHRISTCHURCH), N. Z.
43. 6°S, 172. 8°E
MAY 1963

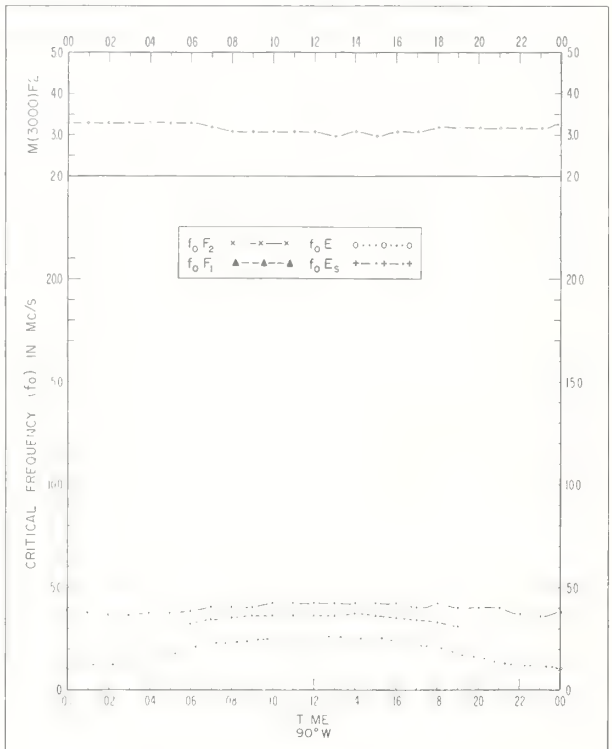

Fig. 32. RESOLUTE BAY, CANADA
74. 7°N, 94. 9°W
APRIL 1963

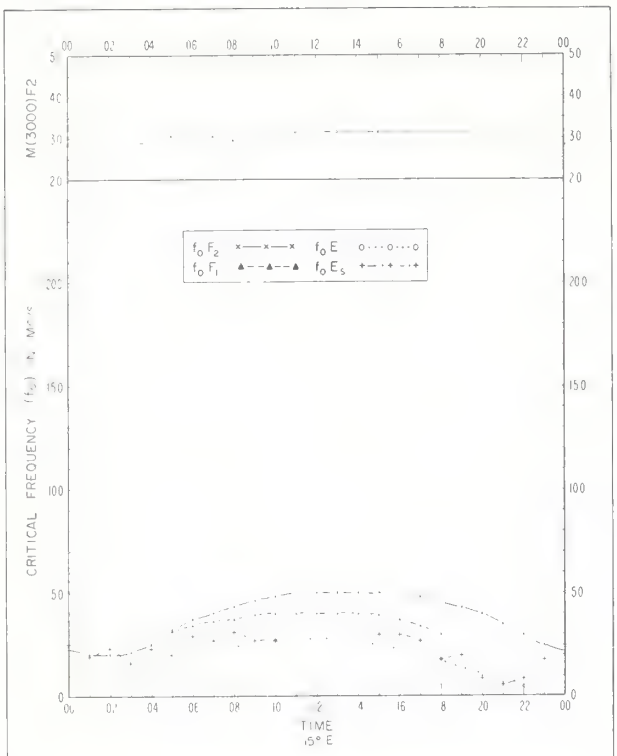

Fig. 33. LYCKSELE, SWEDEN
64.7°N, 18.8°E
APRIL 1963

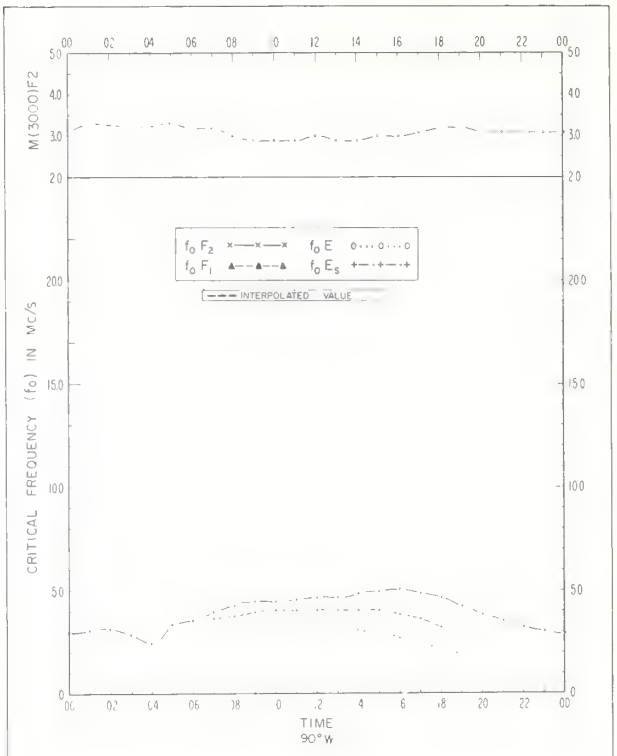

Fig. 34. CHURCHILL, CANADA
58.8°N, 94.2°W
APRIL 1963

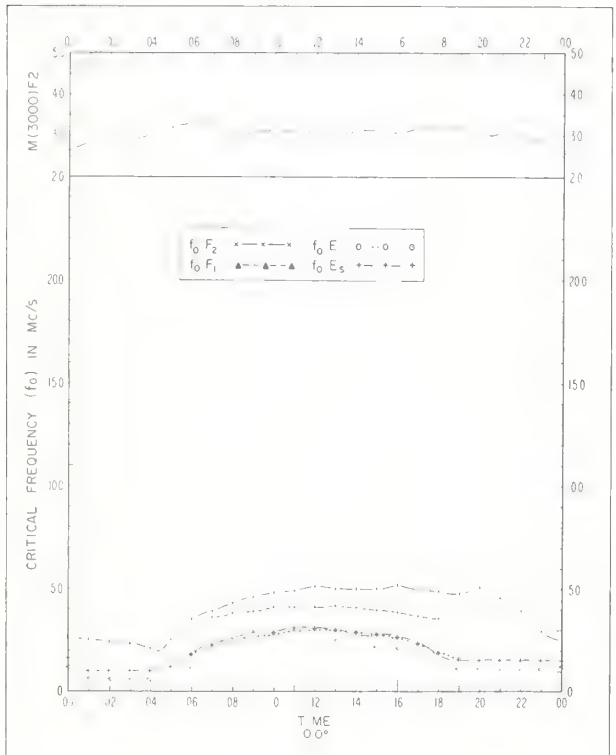

Fig. 35 INVERNESS, SCOTLAND
57.4°N, 4.2°W
APRIL 1963

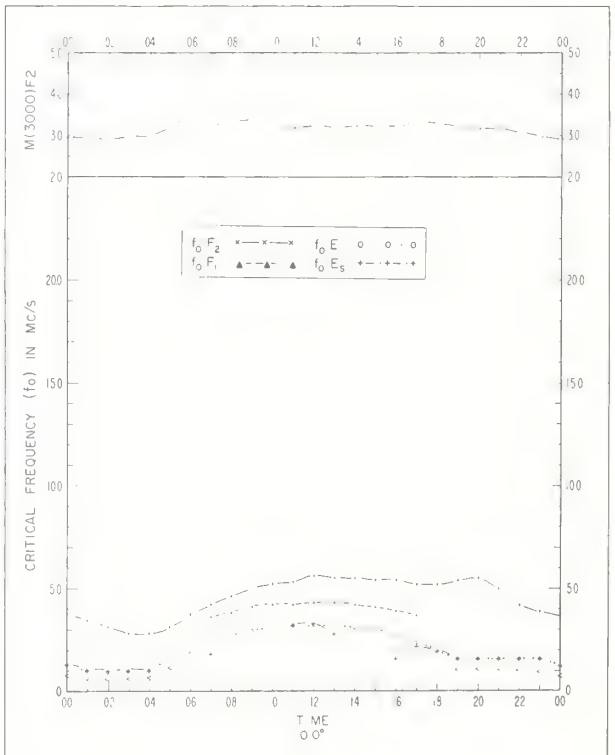

Fig. 36 SLOUGH, ENGLAND
51.5°N, 0.6°W
APRIL 1963

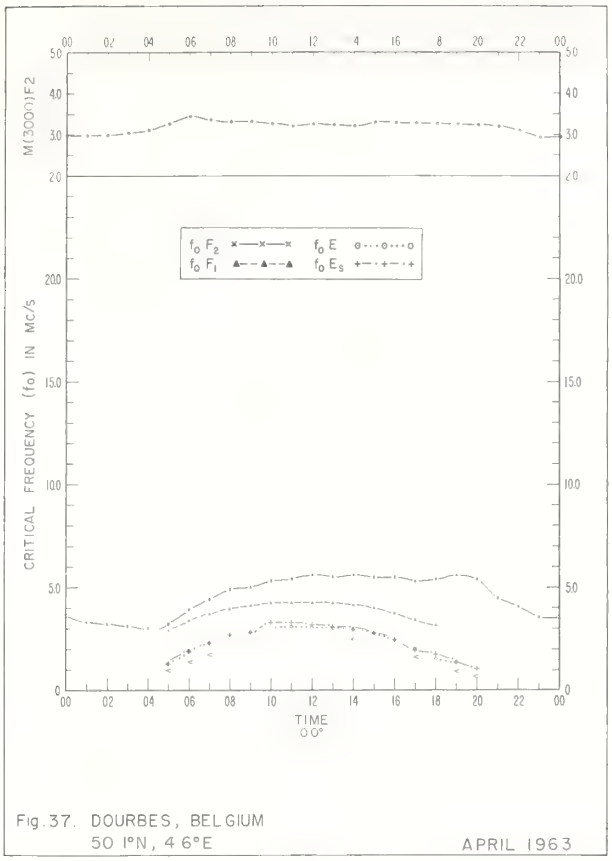

Fig. 37. DOURBES, BELGIUM
50 1°N, 4 6°E
APRIL 1963

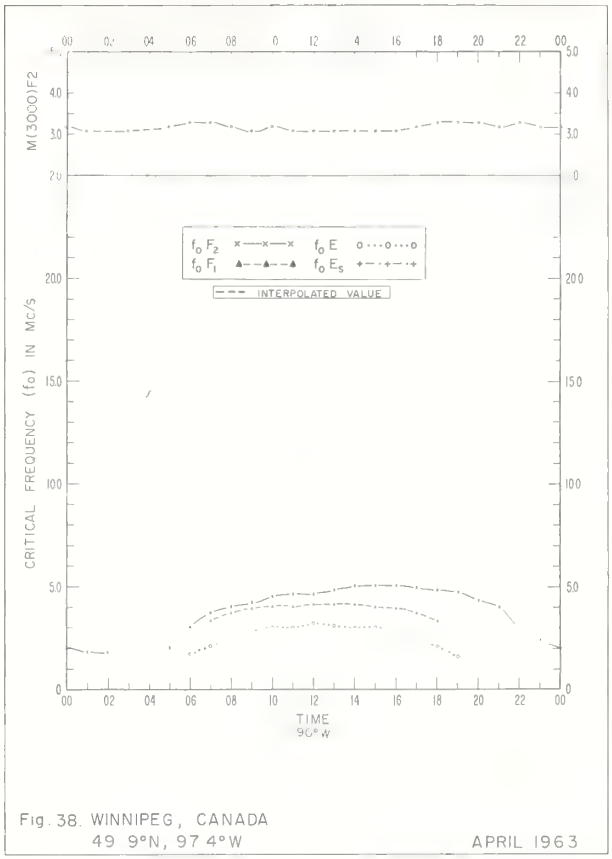

Fig. 38. WINNIPEG, CANADA
49 9°N, 97 4°W
APRIL 1963

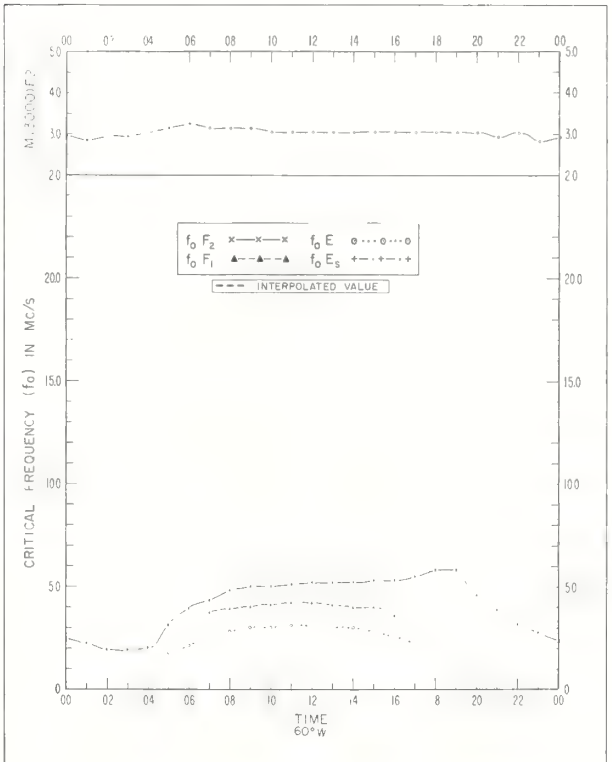

Fig. 39. ST. JOHN'S, NEWFOUNDLAND
47.6°N, 52.7°W
APRIL 1963

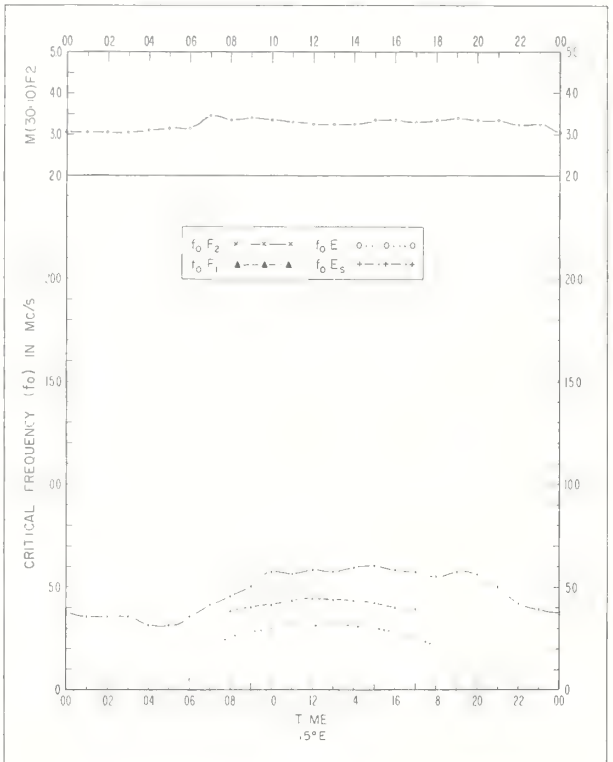

Fig. 40. SOTTENS, SWITZERLAND
46.6°N, 6.7°E
APRIL 1963

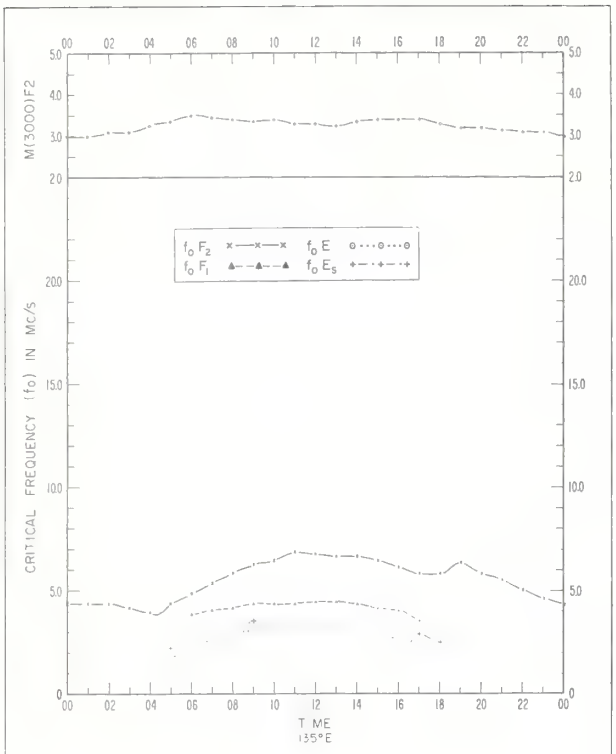

Fig. 41 WAKKANAI, JAPAN
45. 4°N, 141.7°E
APRIL 1963

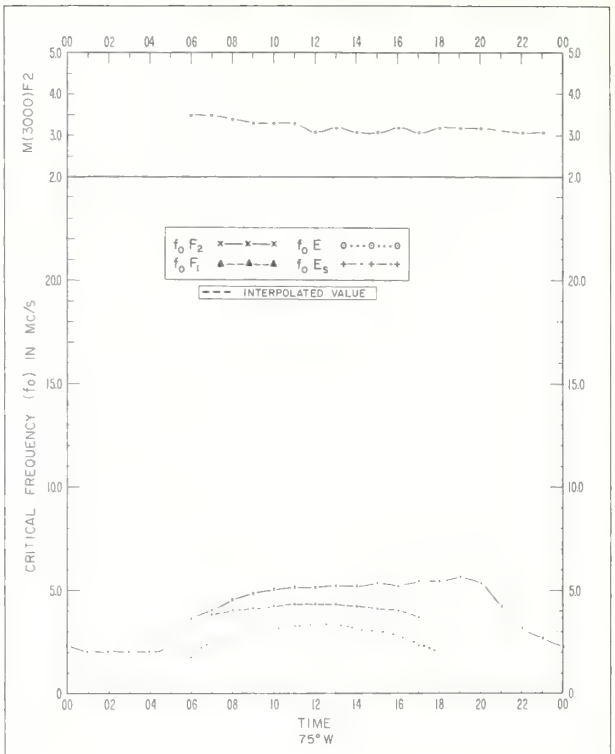

Fig. 42. OTTAWA, CANADA
45.4°N, 75.9°W
APRIL 1963

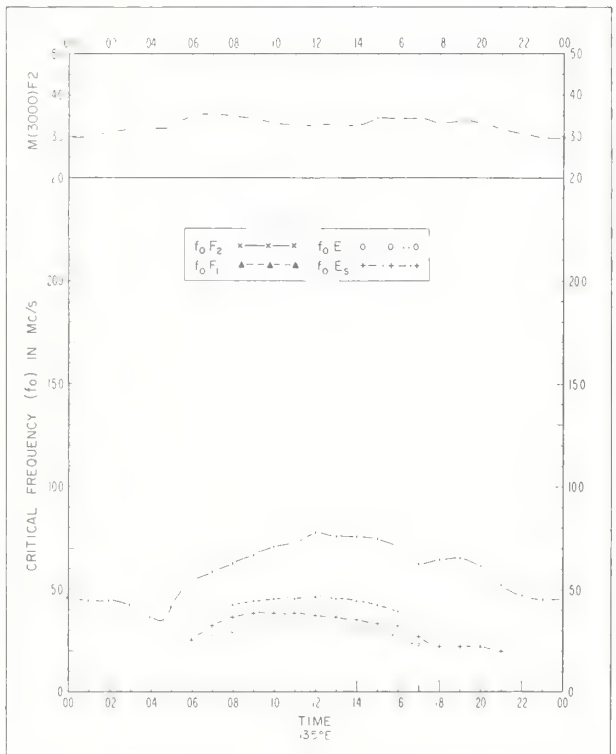

Fig. 43. AKITA, JAPAN
39 7°N, 140 1°E
APRIL 1963

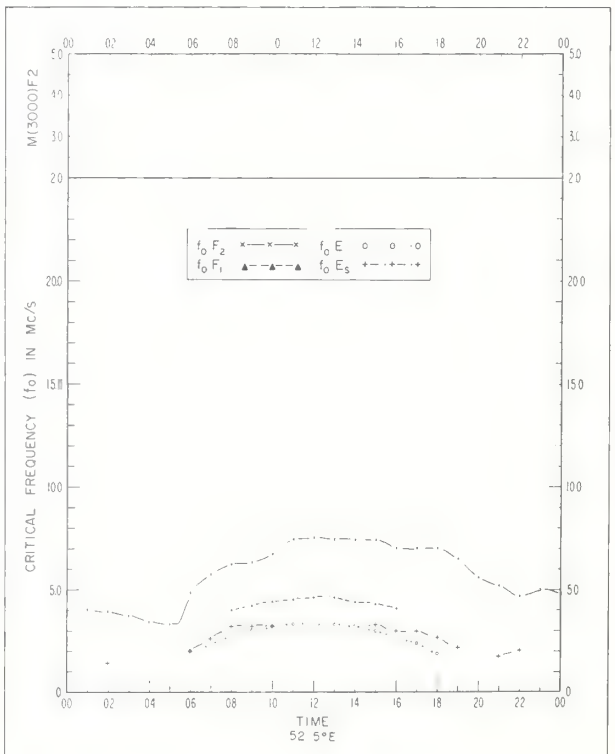

Fig. 44. TEHRAN, IRAN
35 7°N, 51 4°E
APRIL 1963

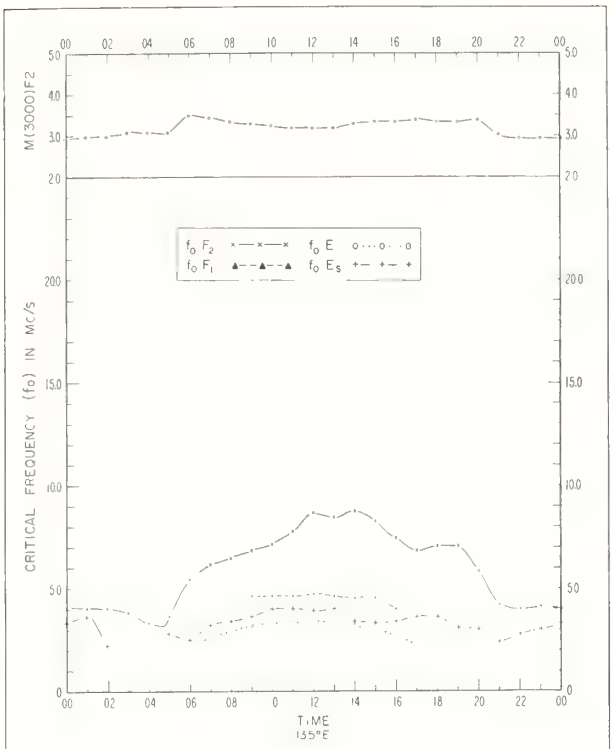

Fig. 45. KOKUBUNJI, TOKYO, JAPAN
35.7°N, 139.5°E APRIL 1963

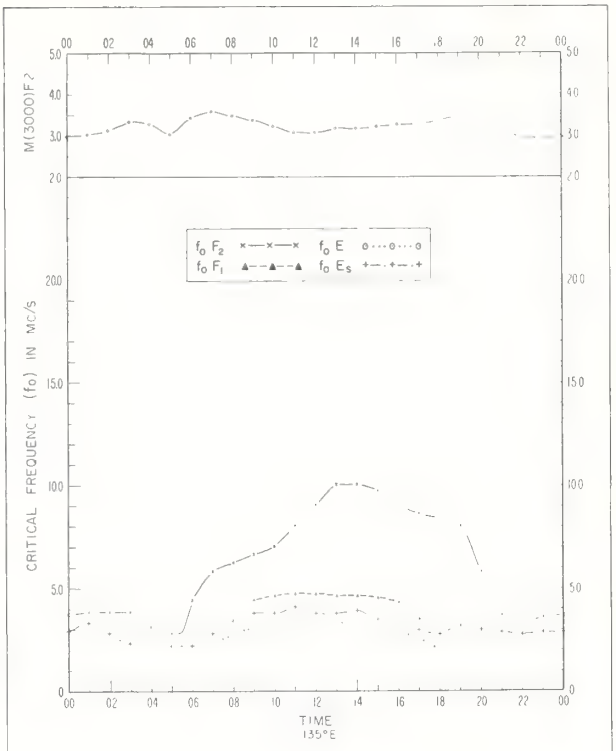

Fig. 46. YAMAGAWA, JAPAN
31.2°N, 130.6°E APRIL 1963

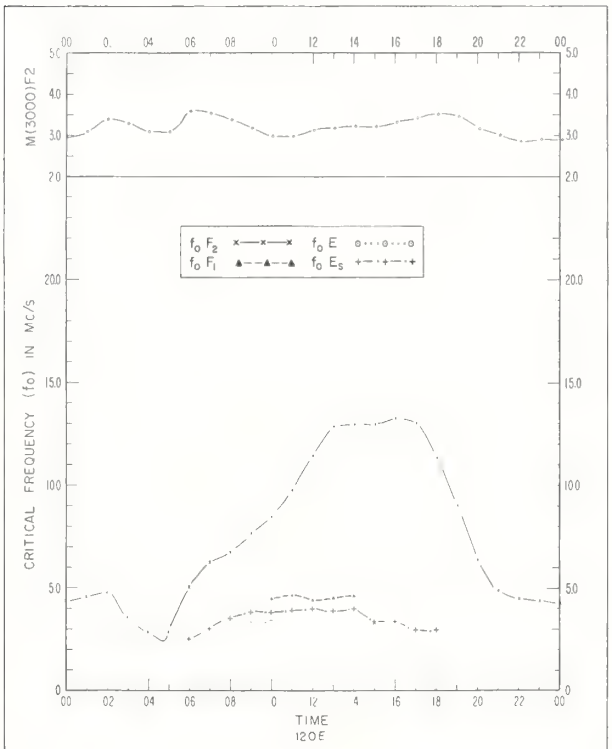

Fig. 47. TAIPEI (TAIWAN), CHINA
25.0°N, 121.5°E APRIL 1963

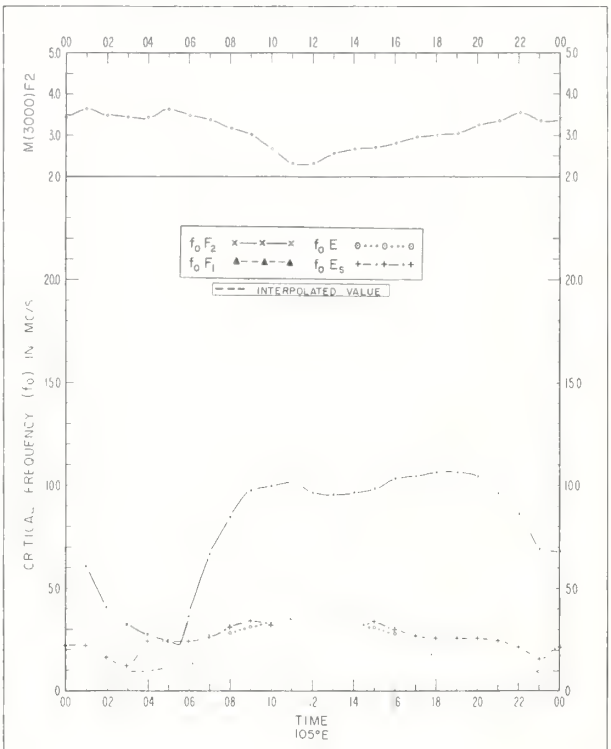

Fig 48. SINGAPORE, BRITISH MALAYA
1.3°N, 103 8°E APRIL 1963

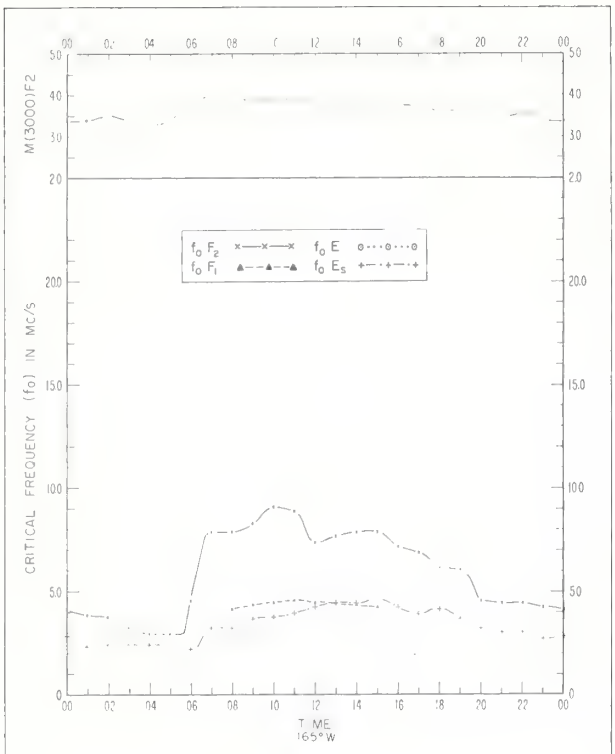

Fig 49 RAROTONGA, COOK IS.
21 2°S, 159 8°W
APRIL 1963

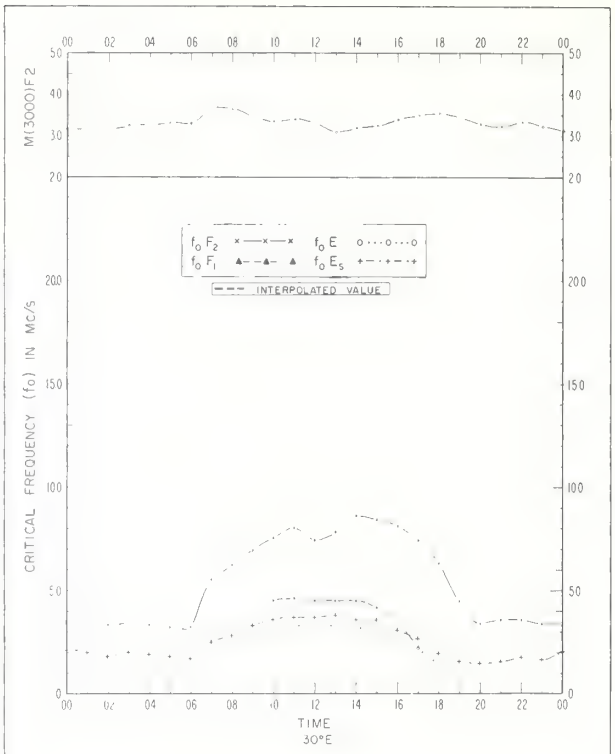

Fig 50. JOHANNESBURG, UNION OF S. AFRICA
26.1°S, 28 1°E
APRIL 1963

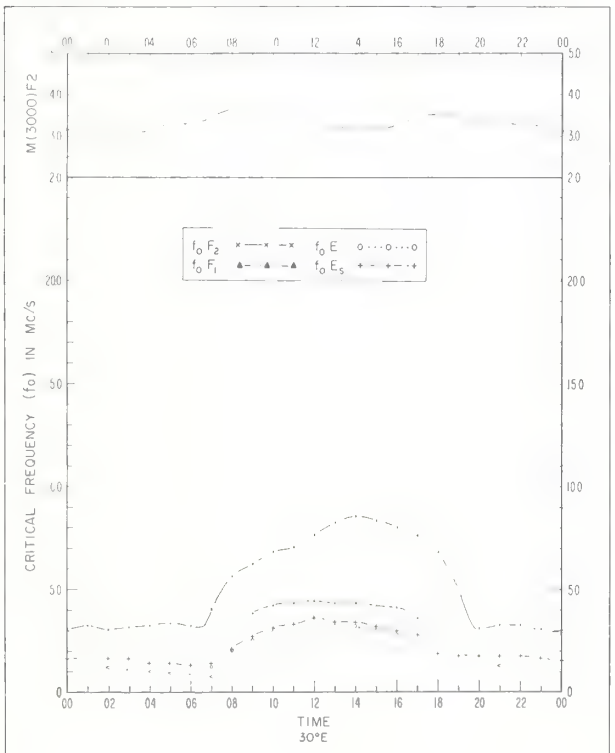

Fig. 51. CAPETOWN, UNION OF S. AFRICA
34 1°S, 18 3°E
APRIL 1963

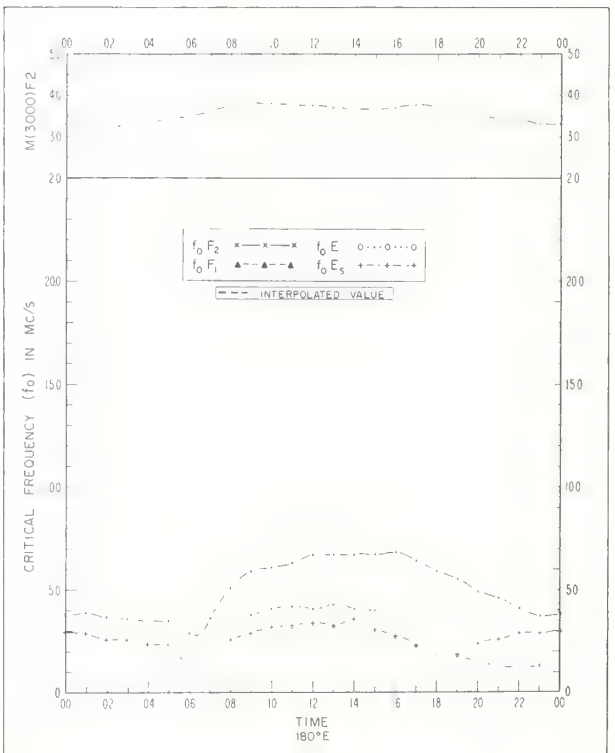

Fig. 52. GODLEY HEAD (CHRISTCHURCH), N. Z.
43.6°S, 172.8°E
APRIL 1963

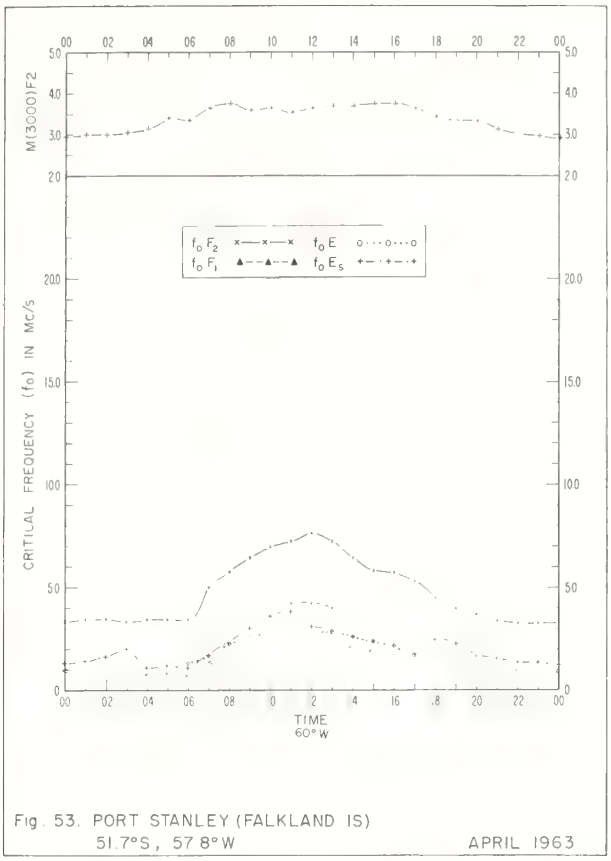

Fig. 53. PORT STANLEY (FALKLAND IS)
51.7°S, 57.8°W APRIL 1963

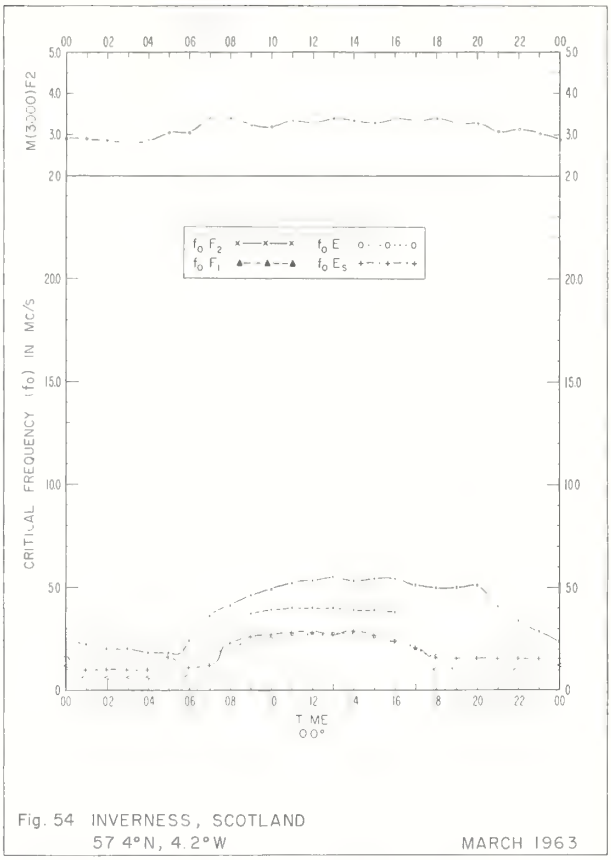

Fig. 54 INVERNESS, SCOTLAND
57.4°N, 4.2°W MARCH 1963

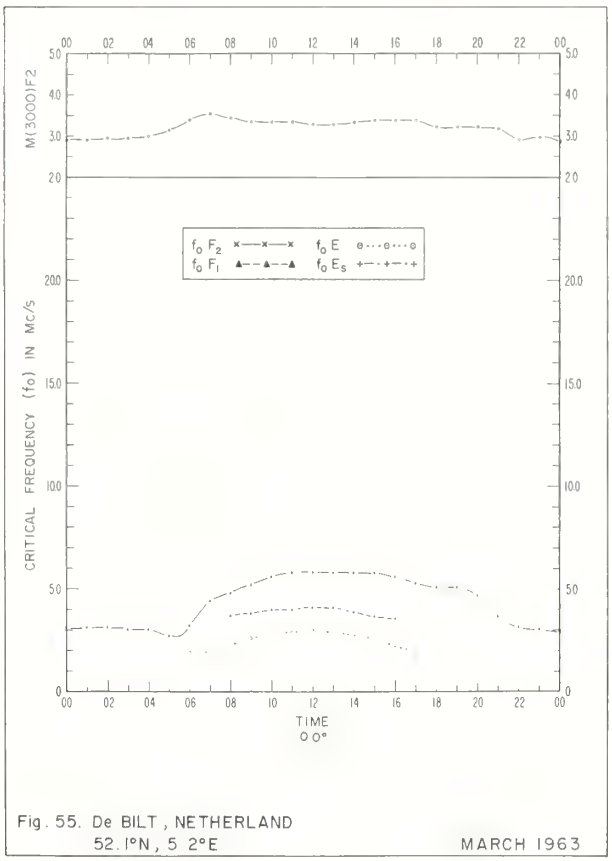

Fig. 55. De BILT, NETHERLAND
52.1°N, 5.2°E MARCH 1963

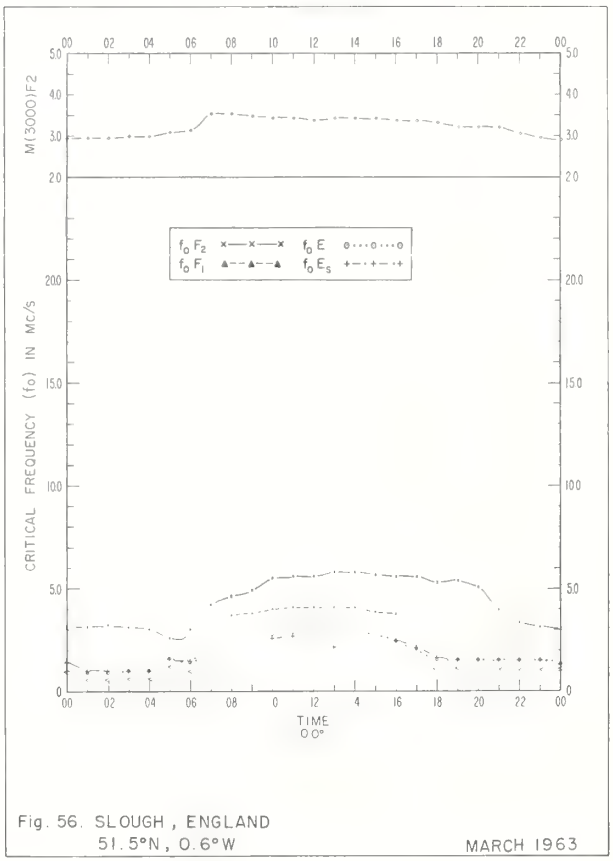

Fig. 56. SLOUGH, ENGLAND
51.5°N, 0.6°W MARCH 1963

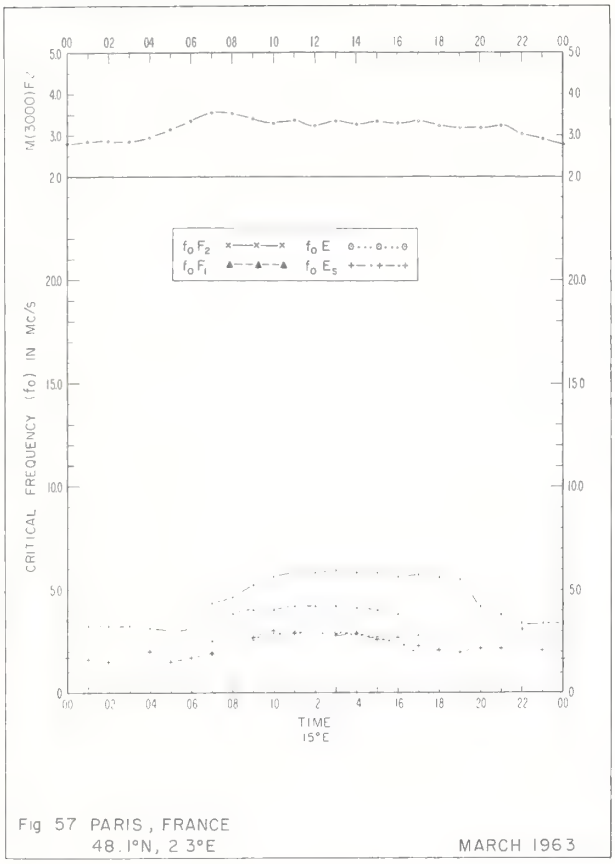

Fig 57 PARIS, FRANCE
48.1°N, 2.3°E
MARCH 1963

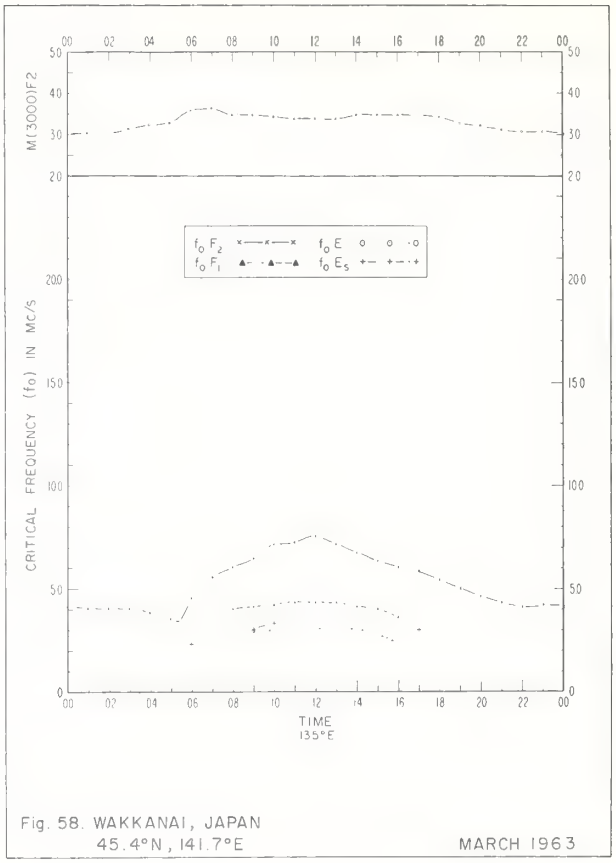

Fig. 58. WAKKANAI, JAPAN
45.4°N, 141.7°E
MARCH 1963

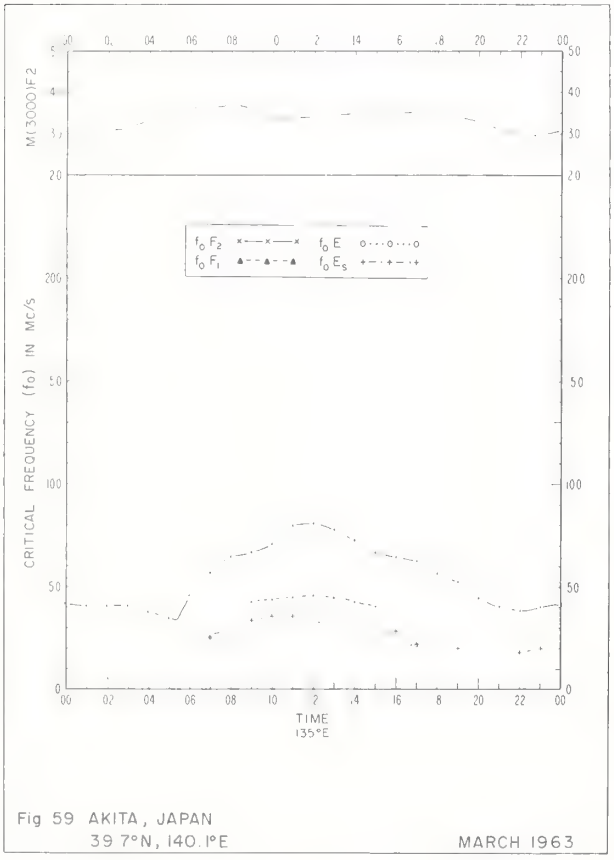

Fig 59 AKITA, JAPAN
39.7°N, 140.1°E
MARCH 1963

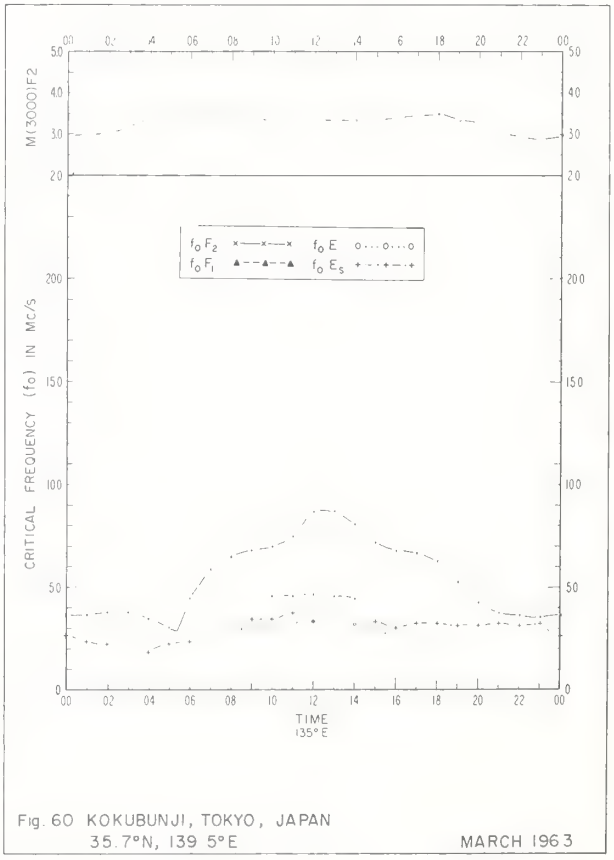

Fig. 60 KOKUBUNJI, TOKYO, JAPAN
35.7°N, 139.5°E
MARCH 1963

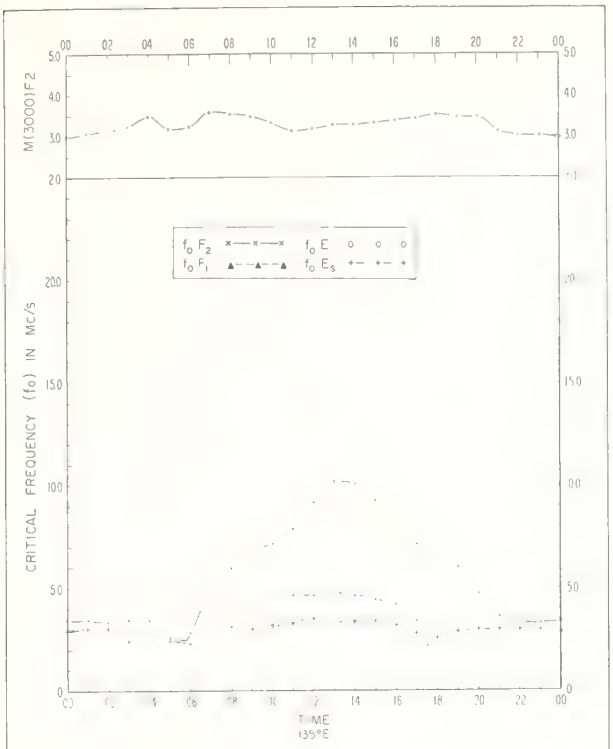

Fig. 61 YAMAGAWA, JAPAN
31.2°N, 130.6°E
MARCH 1963

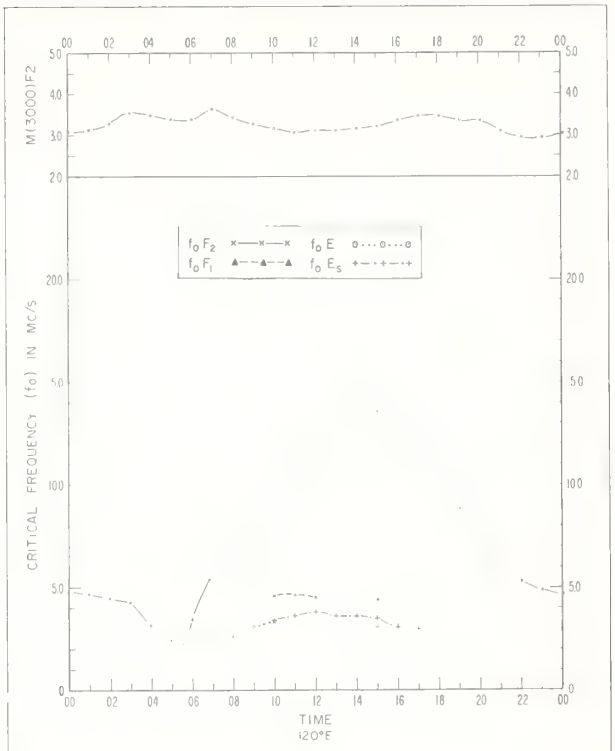

Fig 62 TAIPEI (TAIWAN), CHINA
25.0°N, 121.5°E
MARCH 1963

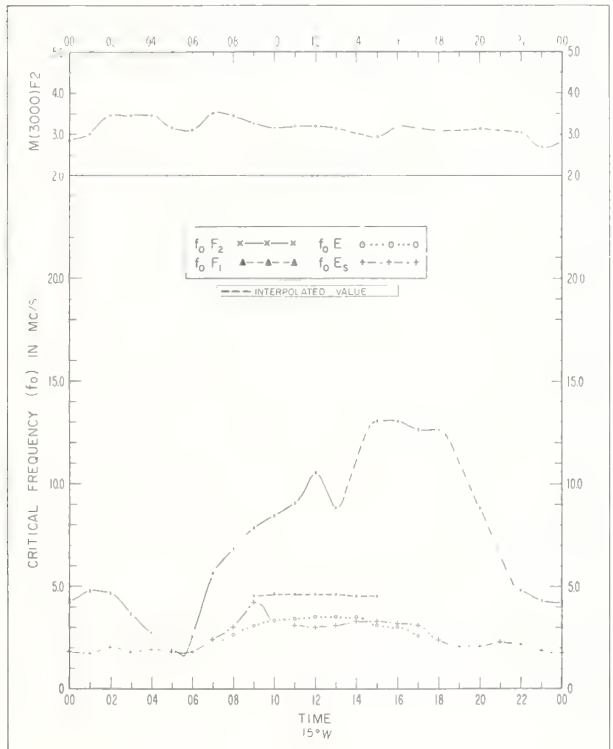

Fig. 63. DAKAR, SENEGAL
14.7°N, 17.4°W
MARCH 1963

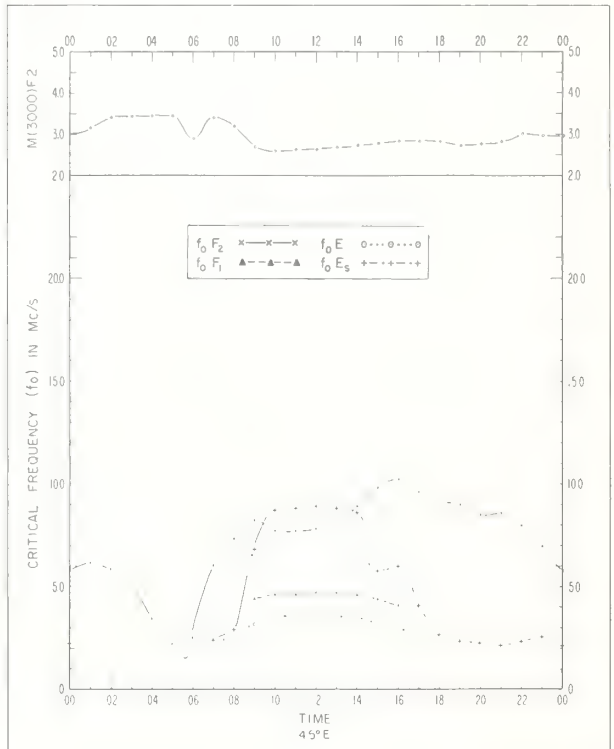

Fig 64. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E
MARCH 1963

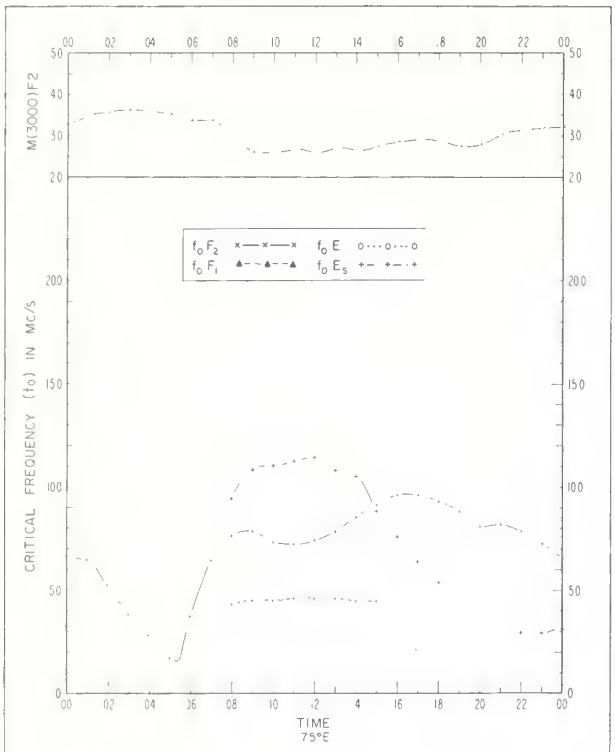

Fig 65 KODAIKANAL, INDIA
10 2°N, 77 5°E
MARCH 1963

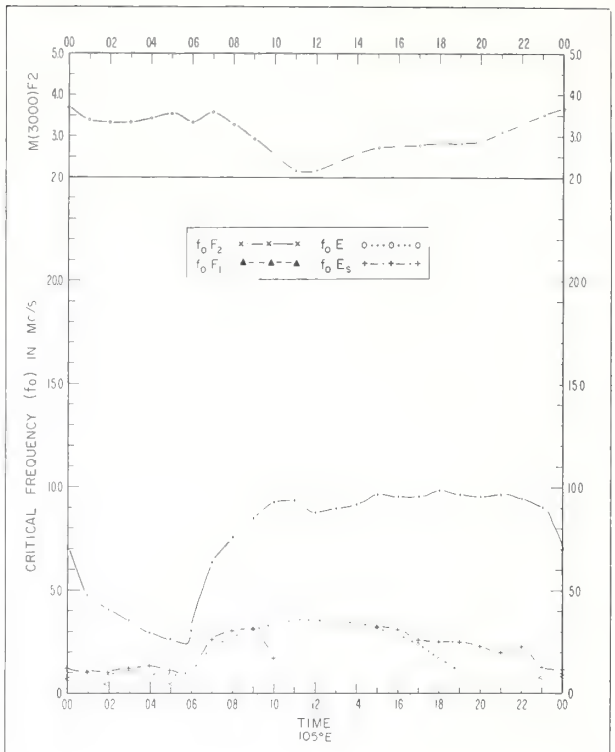

Fig 66. SINGAPORE, BRITISH MALAYA
1 3°N, 103.8°E
MARCH 1963

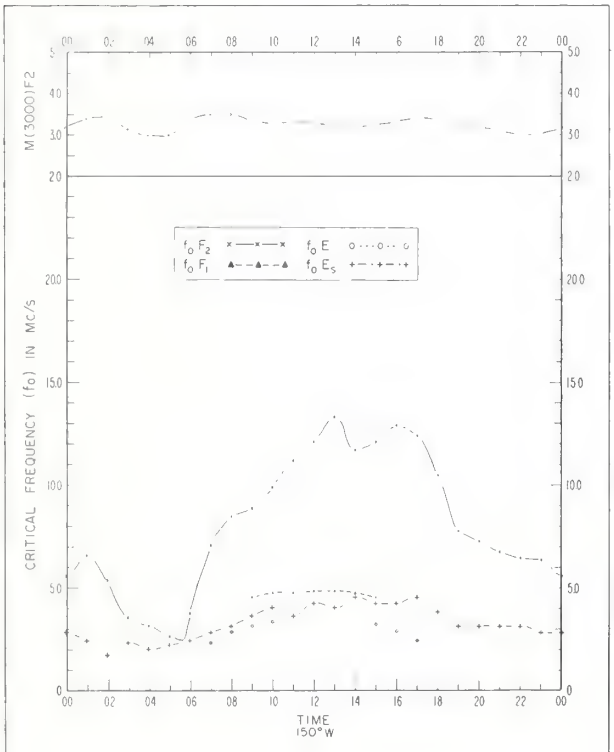

Fig. 67. TAHITI, SOCIETY IS
17.7°S, 149.3°W
MARCH 1963

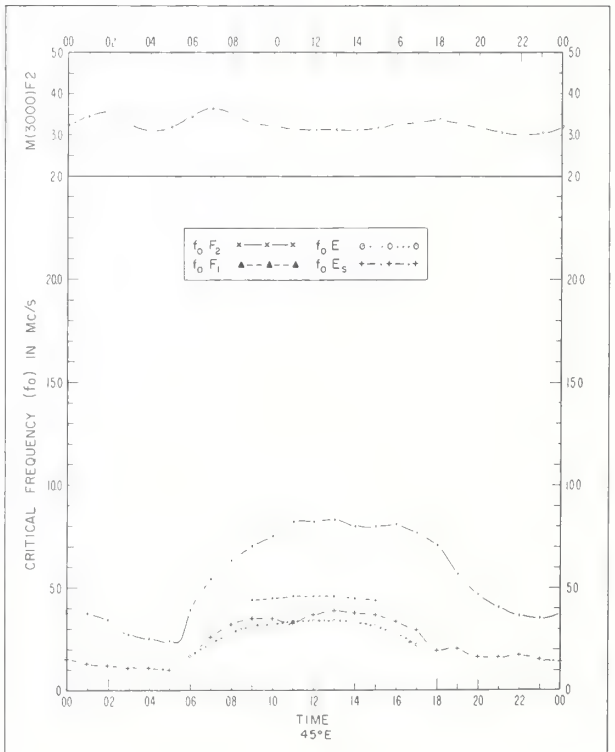

Fig. 68. TANANARIVE, MALAGASY REPUBLIC
18 8°S, 47 5°E
MARCH 1963

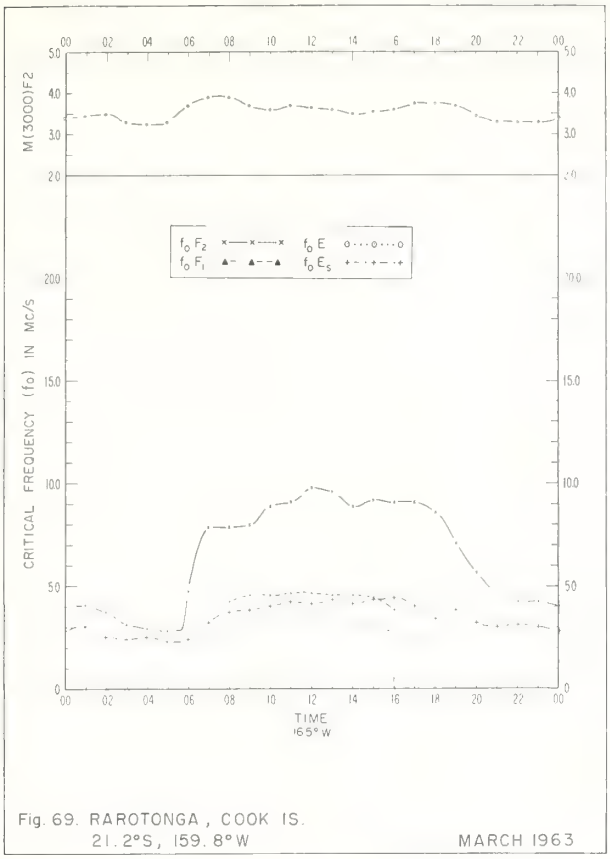

Fig. 69. RAROTONGA, COOK IS.
21.2°S, 159.8°W
MARCH 1963

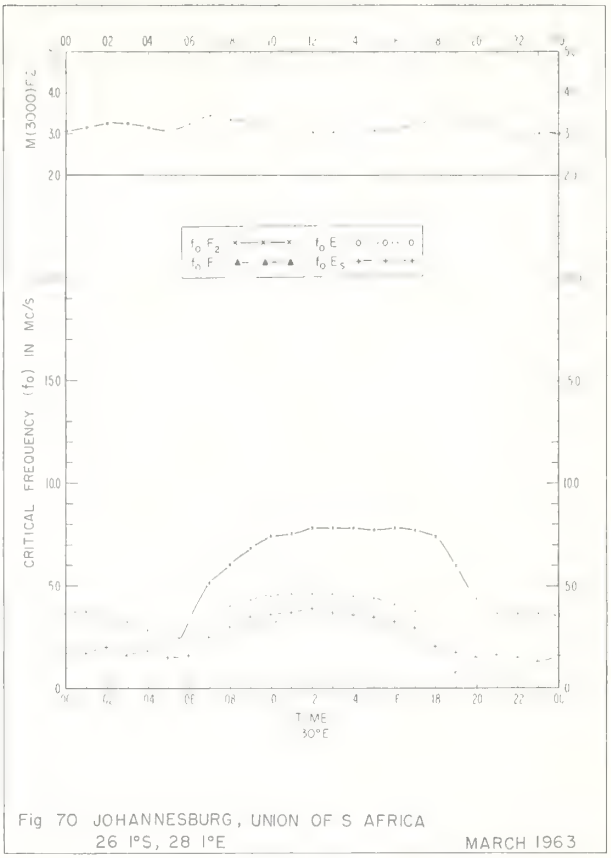

Fig. 70 JOHANNESBURG, UNION OF S AFRICA
26 1°S, 28 1°E
MARCH 1963

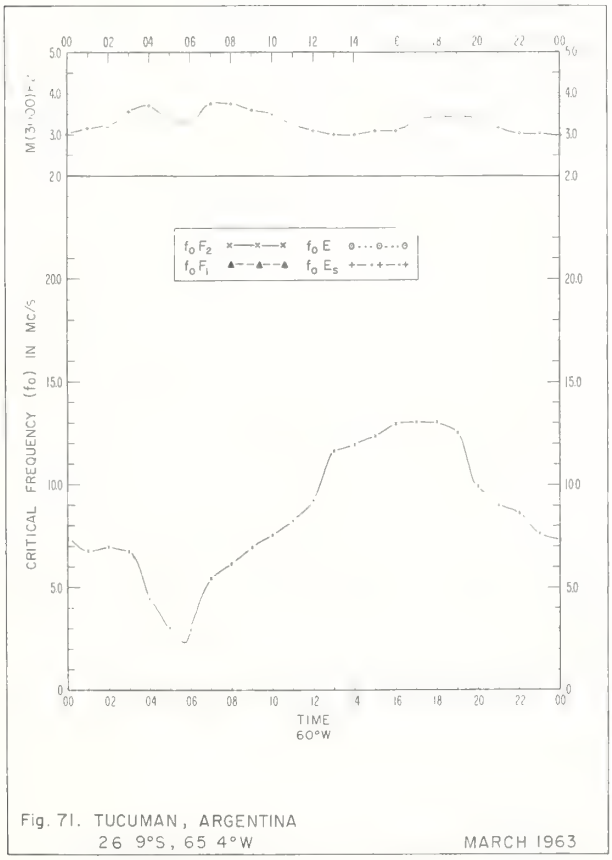

Fig. 71. TUCUMAN, ARGENTINA
26 9°S, 65 4°W
MARCH 1963

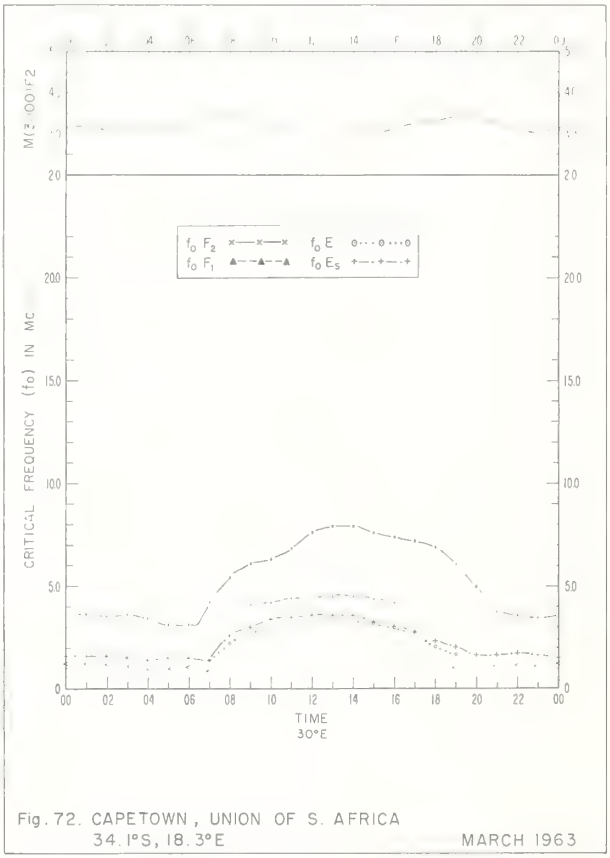

Fig. 72. CAPETOWN, UNION OF S. AFRICA
34.1°S, 18.3°E
MARCH 1963

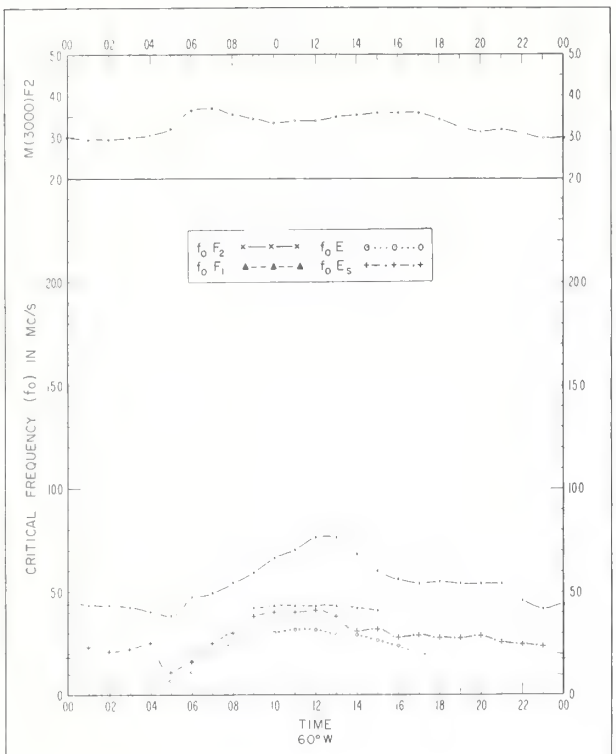

Fig. 73 PORT STANLEY (FALKLAND IS.)
51.7°S, 57.8°W MARCH 1963

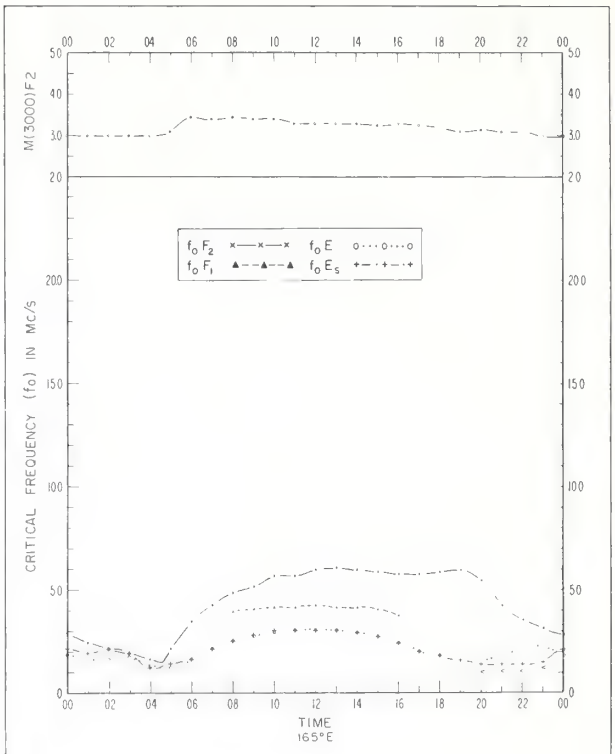

Fig. 74. CAMPBELL I
52.5°S, 169.2°E MARCH 1963

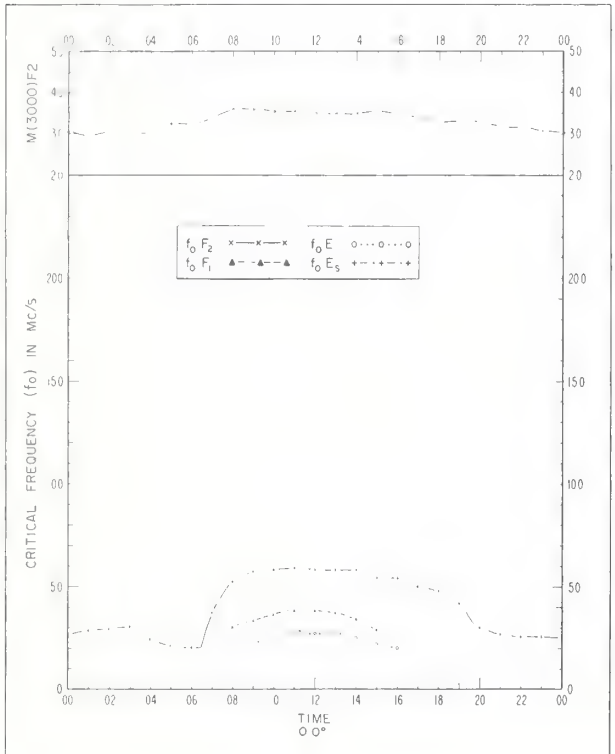

Fig. 75. De BILT, NETHERLANDS
52.1°N, 5.2°E FEBRUARY 1963

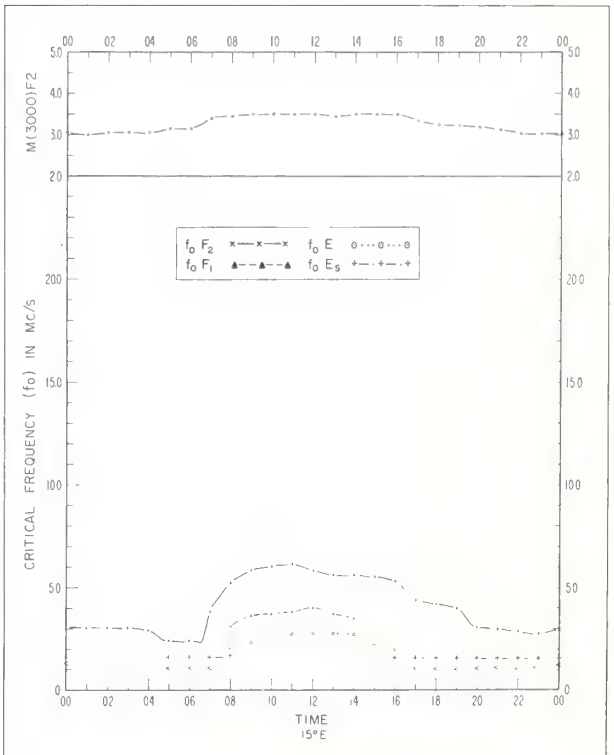

Fig. 76. WARSAW (MIEDZESYN), POLAND
52.2°N, 21.2°E FEBRUARY 1963

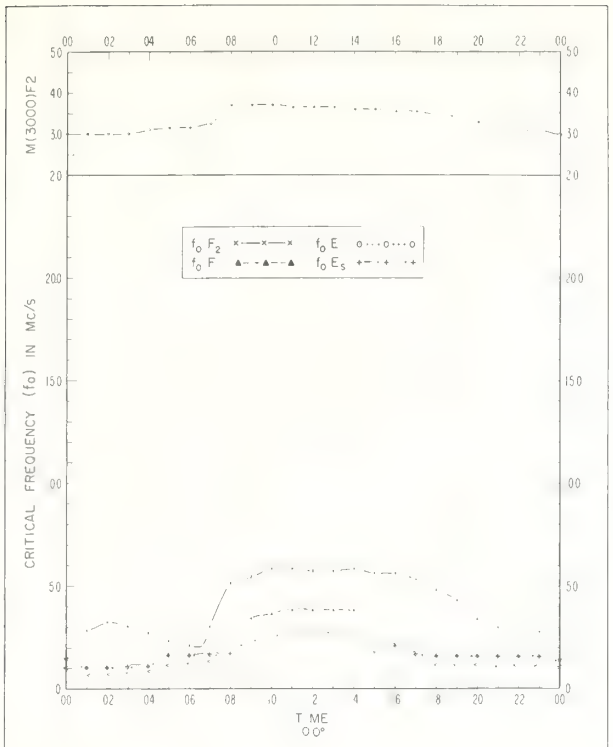

Fig. 77. SLOUGH, ENGLAND
51.5°N, 0.6°W
FEBRUARY 1963

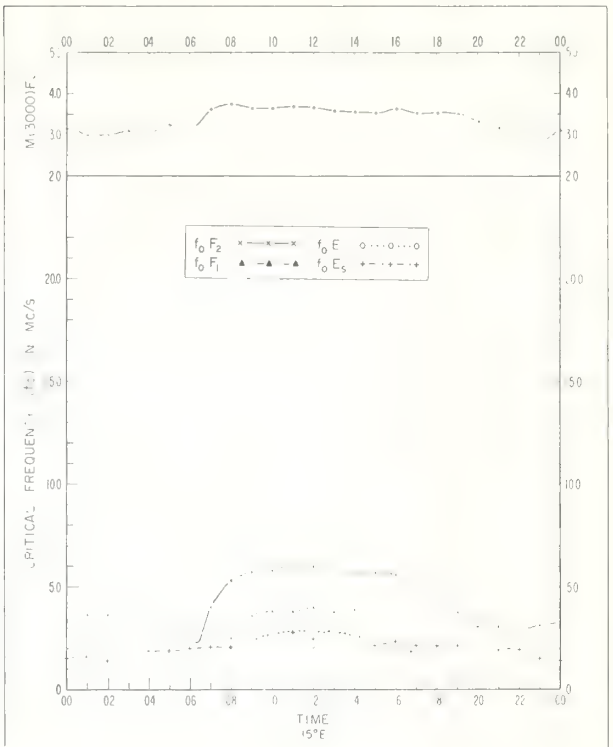

Fig. 78 PARIS, FRANCE
48.1°N, 2.3°E
FEBRUARY 1963

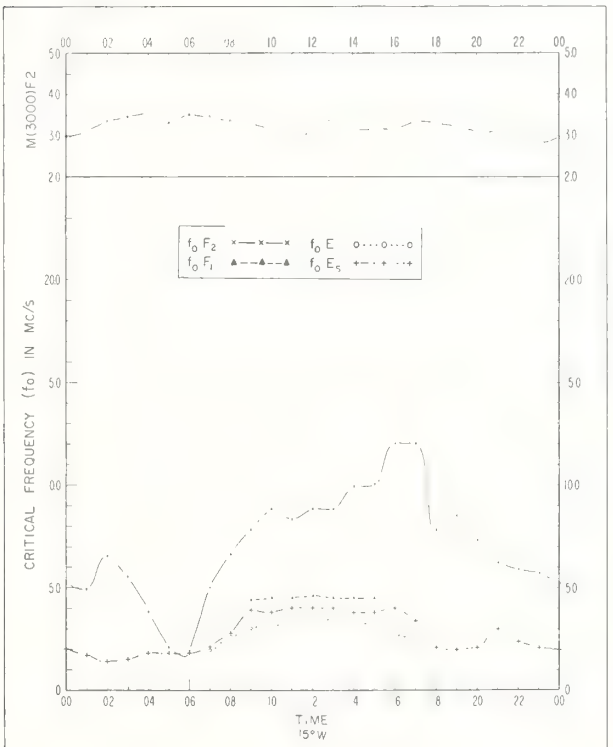

Fig. 79. DAKAR, SENEGAL
14.7°N, 17.4°W
FEBRUARY 1963

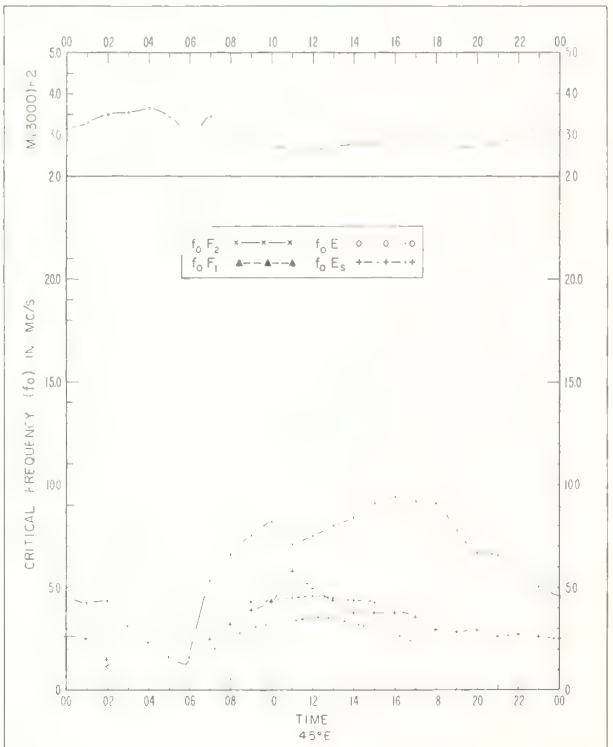

Fig. 80. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E
FEBRUARY 1963

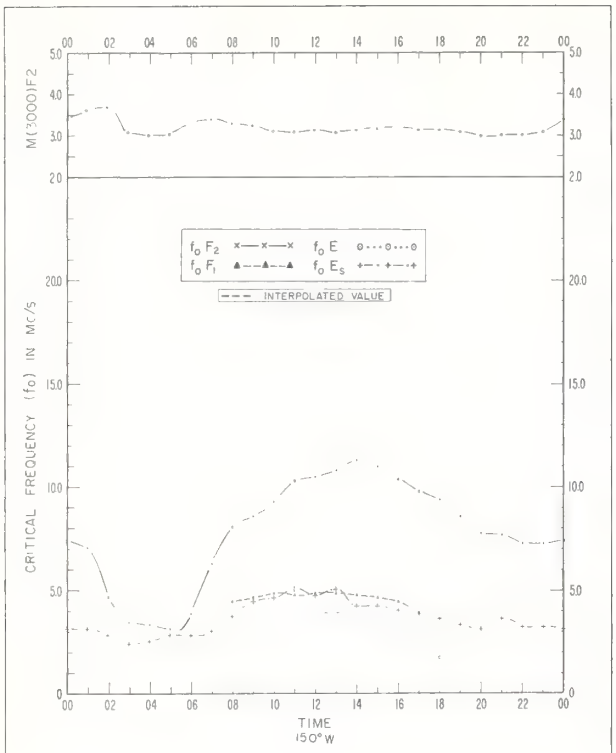

Fig 81. TAHITI, SOCIETY IS.
17.7°S, 149.3°W
FEBRUARY 1963

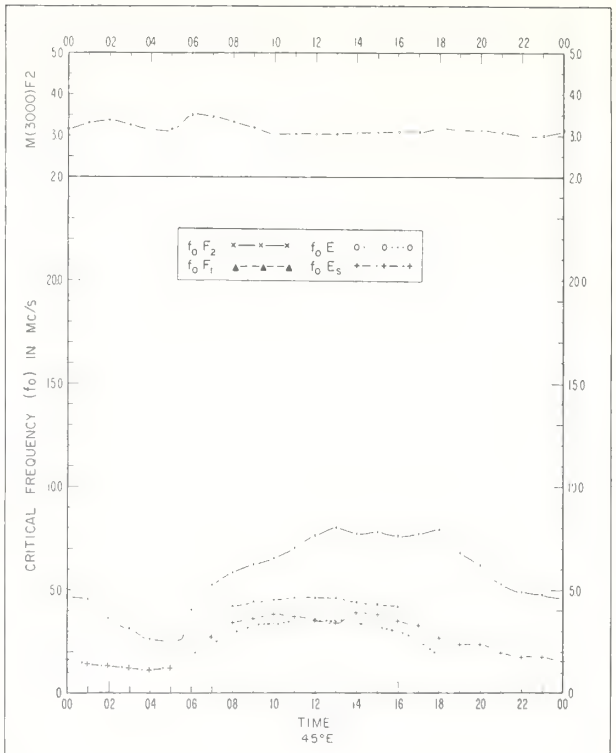

Fig. 82. TANANARIVE, MALAGASY REPUBLIC
18.8°S, 47.5°E
FEBRUARY 1963

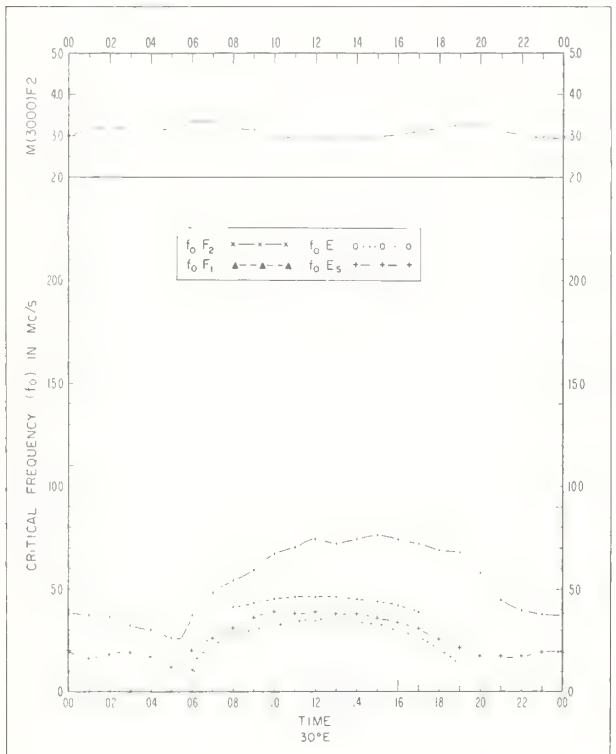

Fig. 83. JOHANNESBURG, UNION OF S. AFRICA
26.1°S, 28.1°E
FEBRUARY 1963

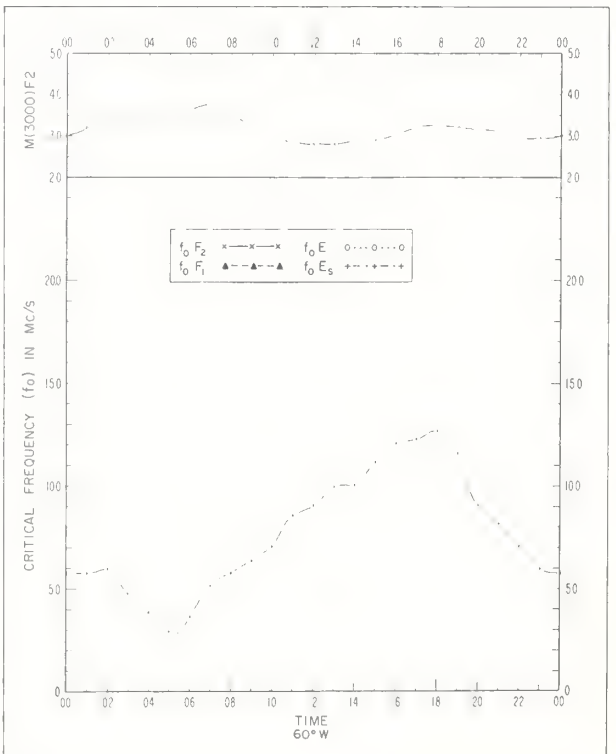

Fig. 84. TUCUMAN, ARGENTINA
26.9°S, 65.4°W
FEBRUARY 1963

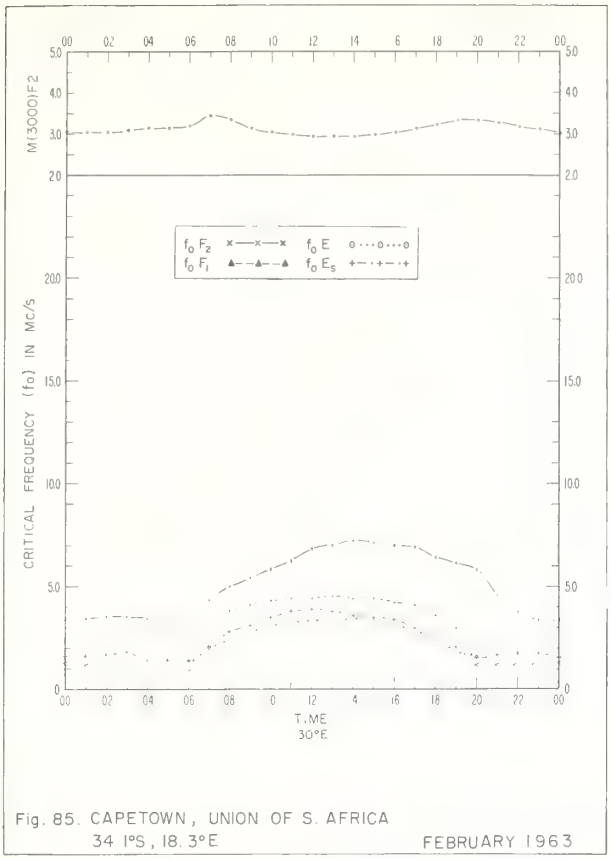

Fig. 85. CAPETOWN, UNION OF S. AFRICA
34 1°S, 18. 3°E FEBRUARY 1963

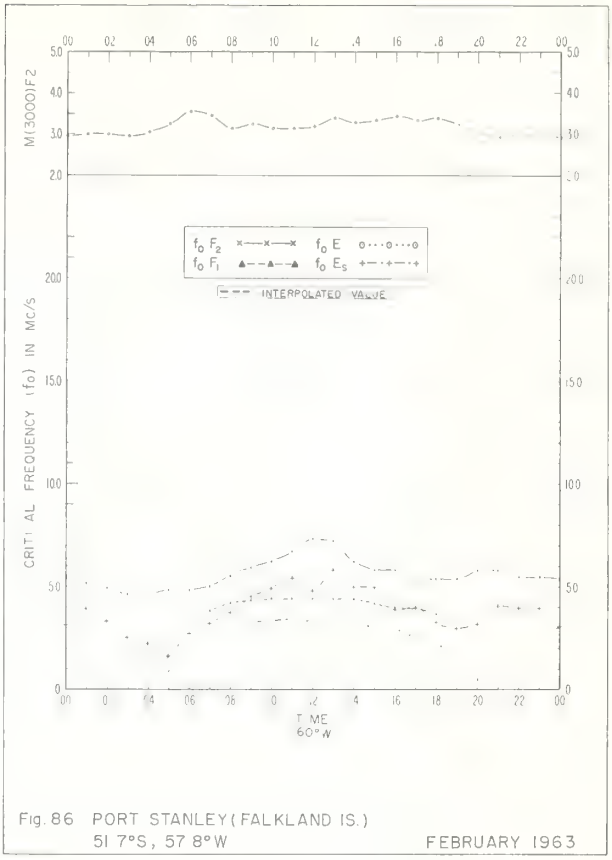

Fig. 86 PORT STANLEY (FALKLAND IS.)
51 7°S, 57 8°W FEBRUARY 1963

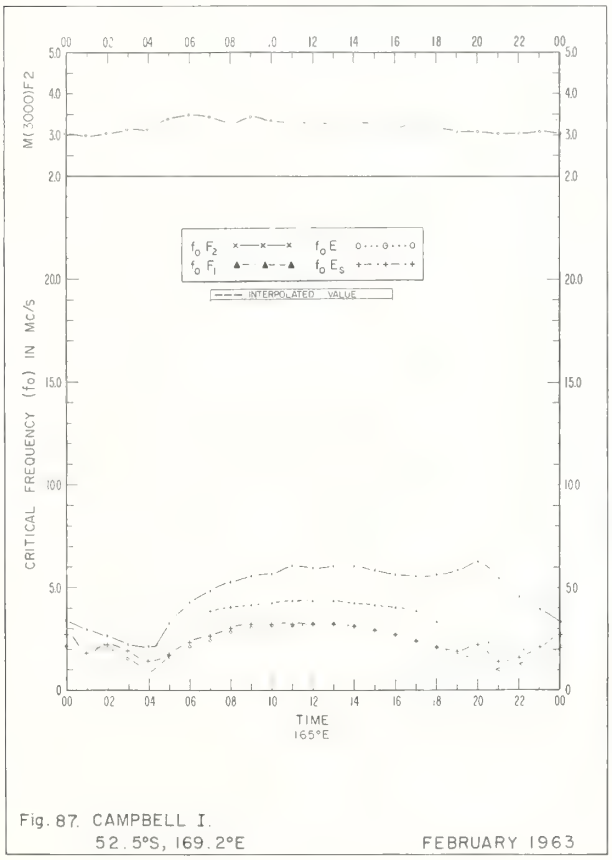

Fig. 87. CAMPBELL I.
52.5°S, 169.2°E FEBRUARY 1963

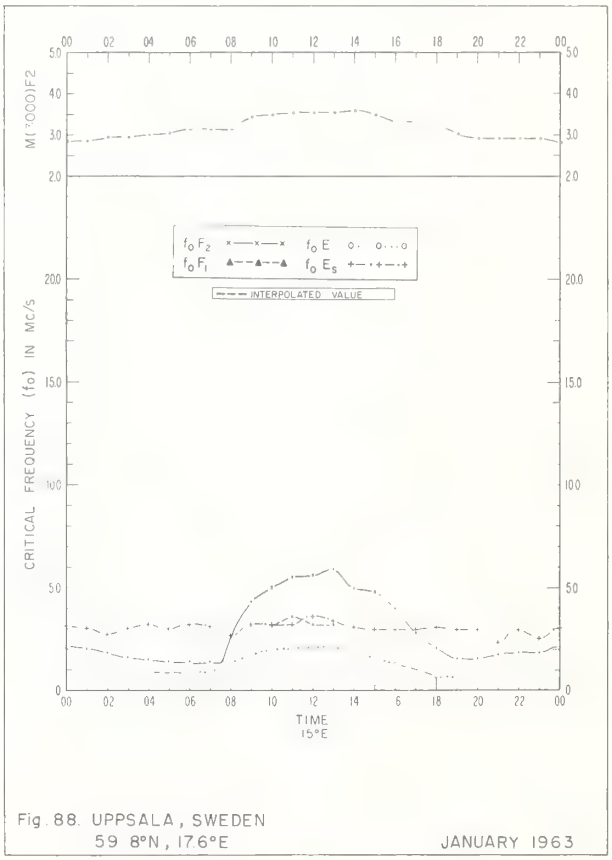

Fig. 88. UPPSALA, SWEDEN
59 8°N, 17.6°E JANUARY 1963

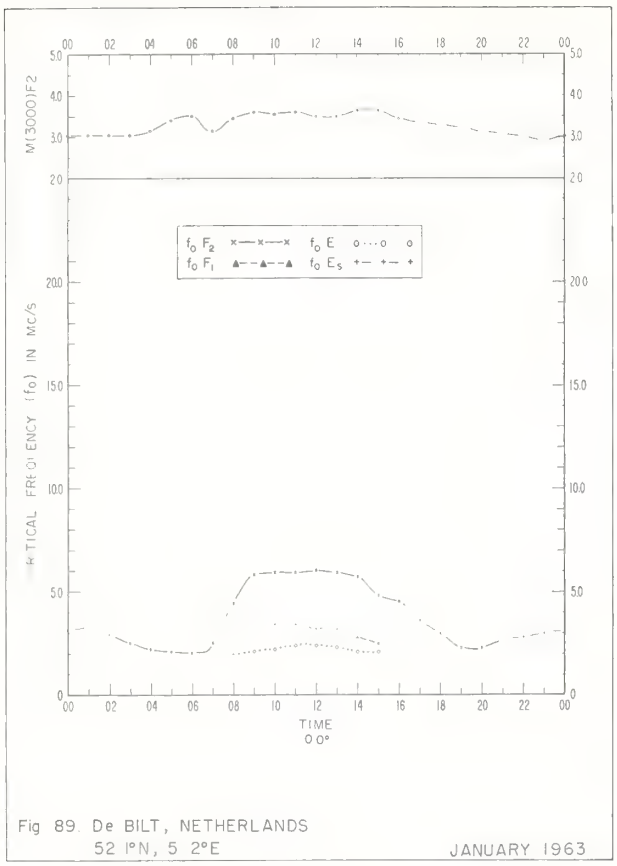

Fig. 89. De BILT, NETHERLANDS
52 1°N, 5 2°E
JANUARY 1963

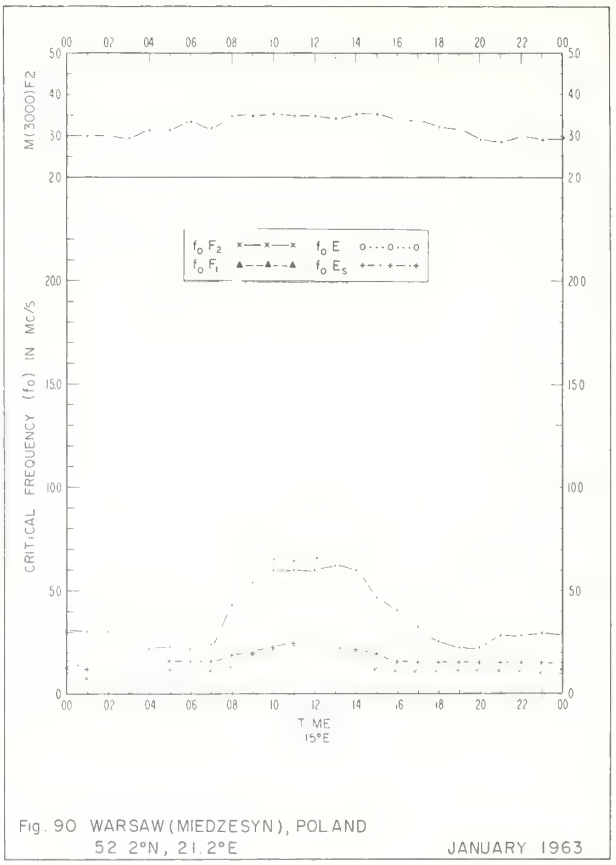

Fig. 90 WARSAW (MIEDZESYN), POLAND
52 2°N, 21.2°E
JANUARY 1963

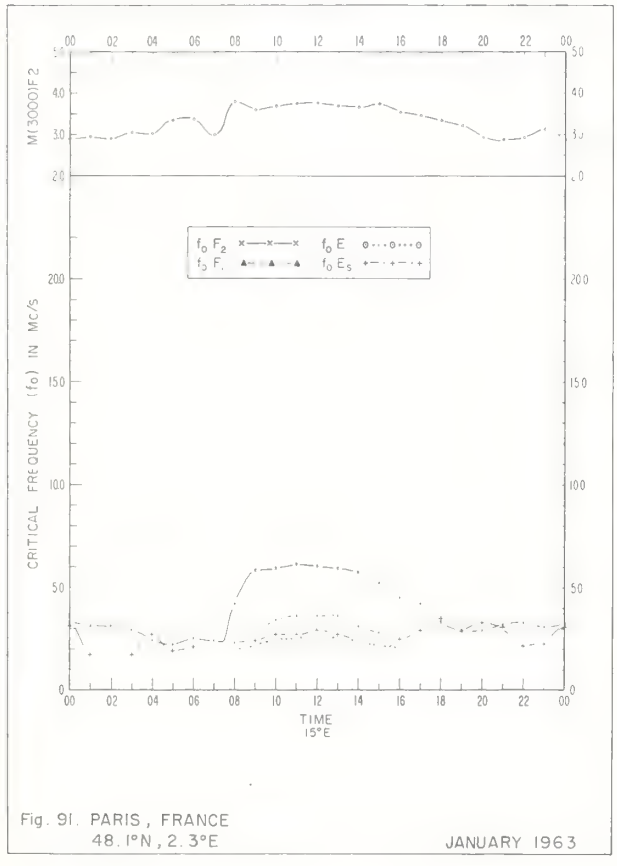

Fig. 91. PARIS, FRANCE
48.1°N, 2.3°E
JANUARY 1963

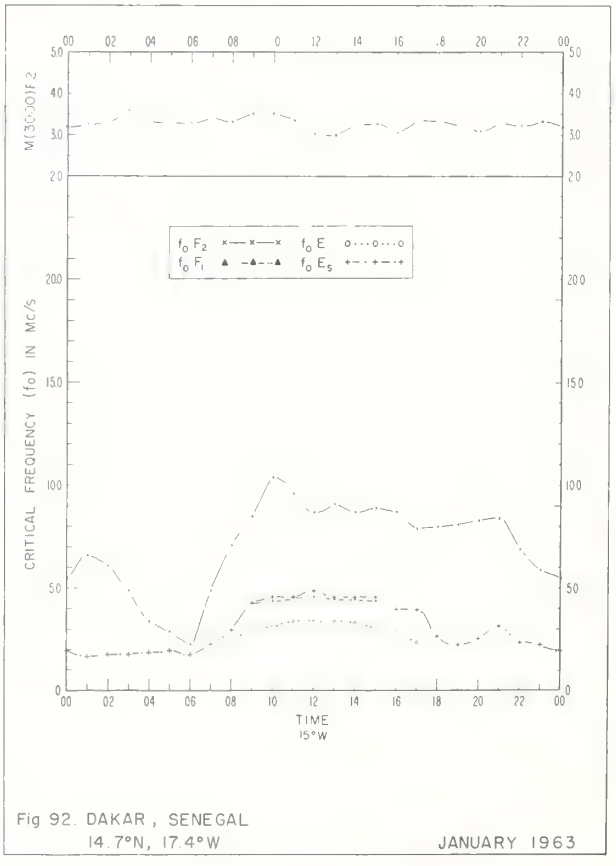

Fig 92. DAKAR, SENEGAL
14.7°N, 17.4°W
JANUARY 1963

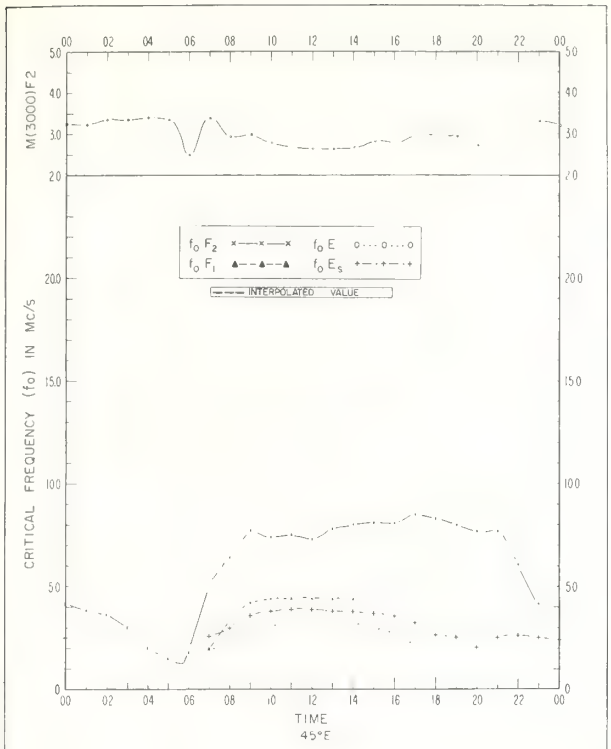

Fig. 93. DJIBOUTI, FRENCH SOMALILAND
11 6°N, 43 2°E JANUARY 1963

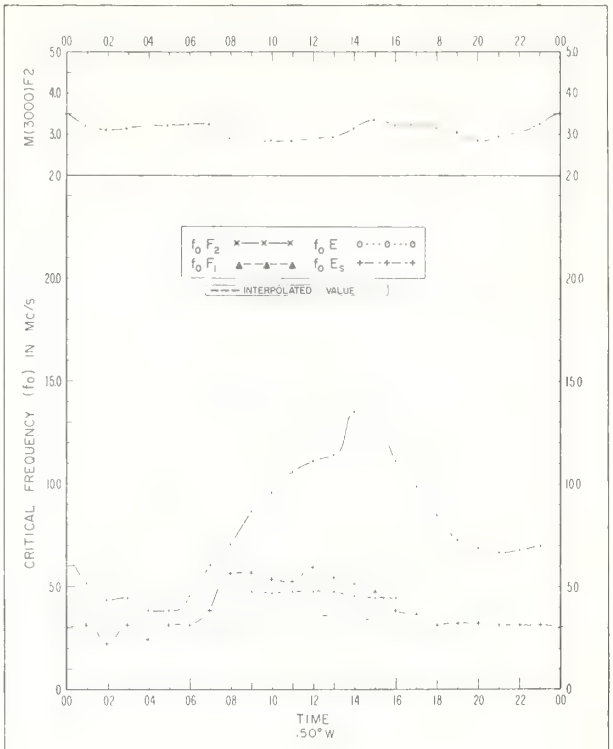

Fig. 94. TAHITI, SOCIETY IS
17.7°S, 149.3°W JANUARY 1963

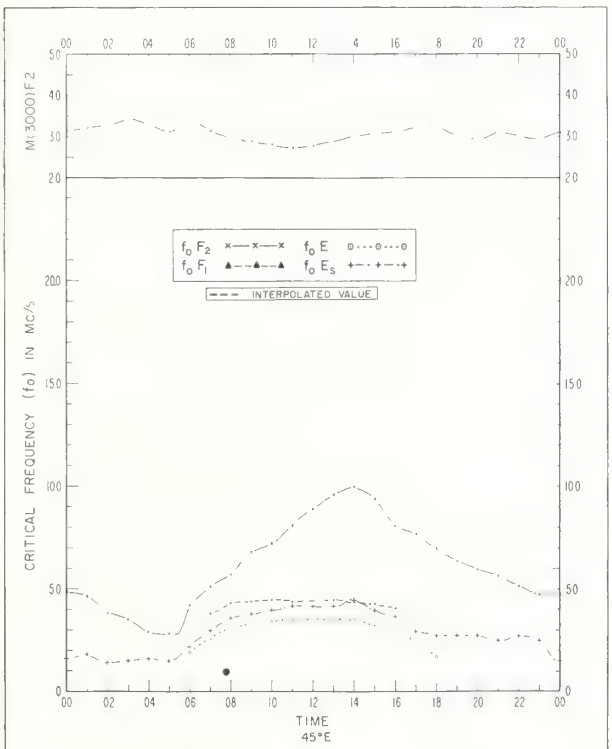

Fig. 95. TANANARIVE, MALAGASY REPUBLIC
18.8°N, 47.5°E JANUARY 1963

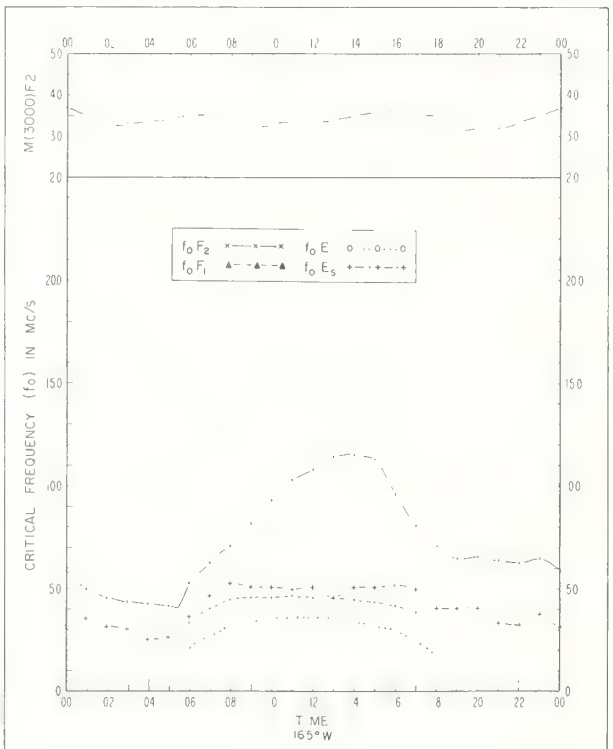

Fig. 96. RAROTONGA, COOK IS.
21.2°S, 159.8°W JANUARY 1963

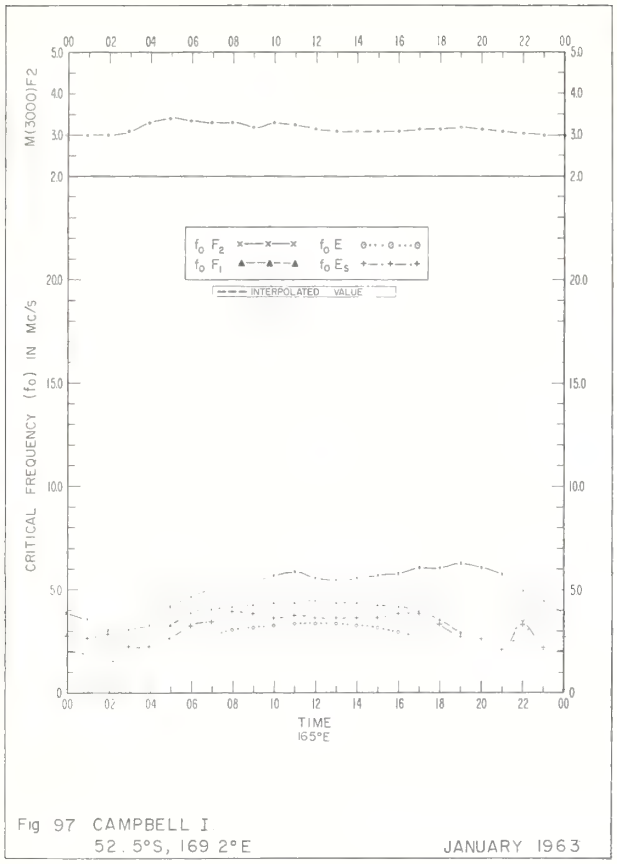

Fig 97 CAMPBELL I
52.5°S, 169.2°E JANUARY 1963

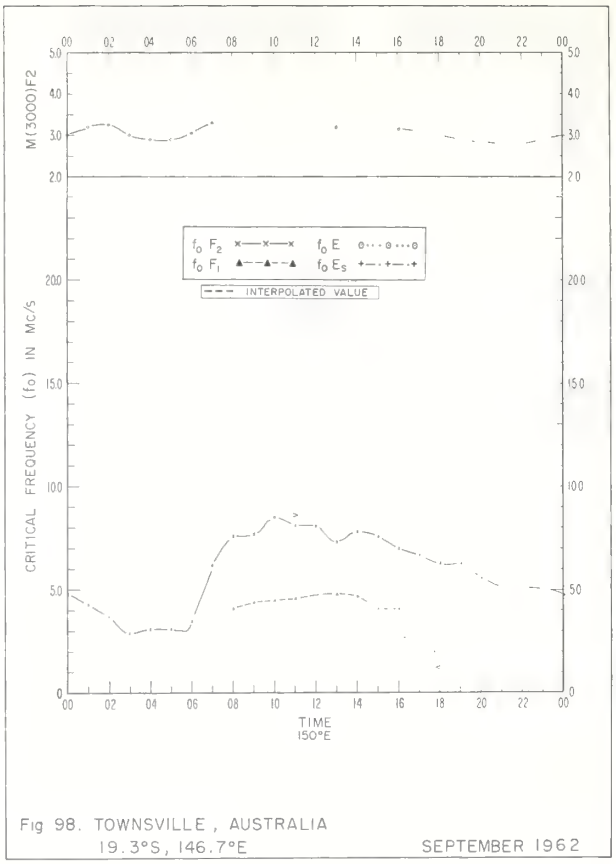

Fig 98. TOWNSVILLE, AUSTRALIA
19.3°S, 146.7°E SEPTEMBER 1962

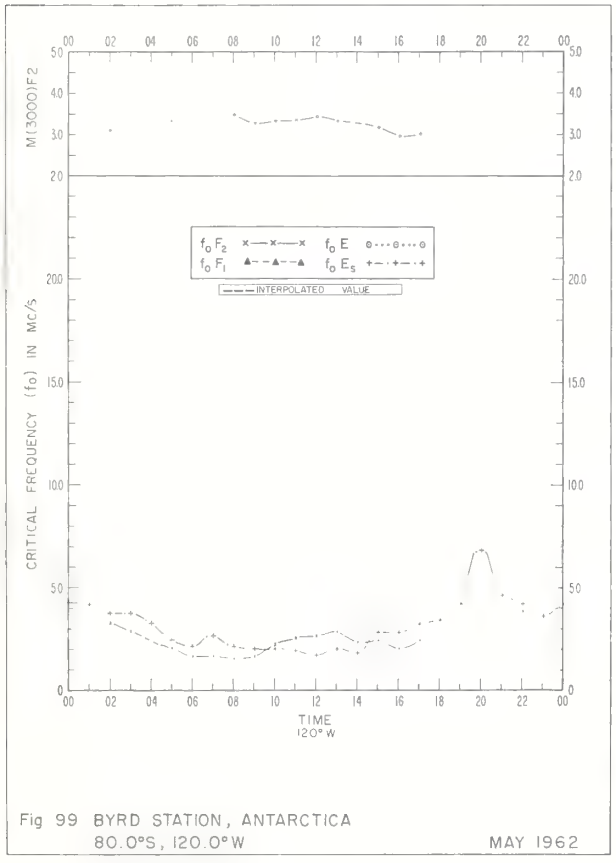

Fig 99 BYRD STATION, ANTARCTICA
80.0°S, 120.0°W MAY 1962

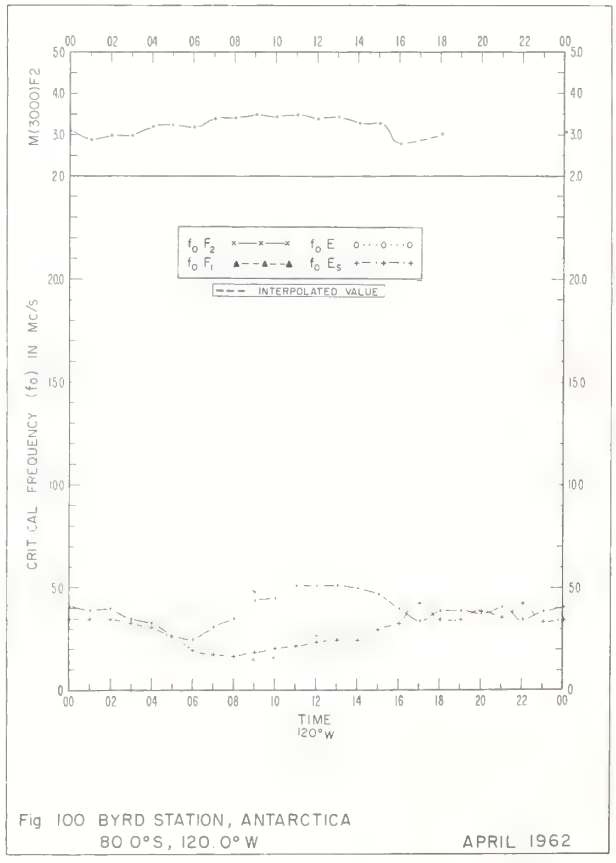

Fig 100 BYRD STATION, ANTARCTICA
80.0°S, 120.0°W APRIL 1962

INDEX OF IONOSPHERIC DATA IN CRPL F239

INDEX OF IONOSPHERIC DATA IN CRPL F239

INDEX OF IONOSPHERIC DATA IN CRPL F239

INDEX OF IONOSPHERIC DATA IN CRPL F239

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(A detailed list of CRPL publications is available from the Central Radio Propagation Laboratory on request.)

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CRPL-F (Part A), "Ionospheric Data."
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